

DRINKING WATER BOARD  
PACKET

JANUARY 14, 2009

SALT LAKE CITY, UTAH

AGENDA  
FOR THE  
DRINKING WATER BOARD  
MEETING  
OF  
JANUARY 14, 2009



## State of Utah

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

## Department of Environmental Quality

Richard W. Sprott  
*Executive Director*

DIVISION OF DRINKING WATER  
Kenneth H. Bousfield, P.E.  
*Director*

**Drinking Water Board**  
Anne Erickson, Ed.D., *Chair*  
Myron Bateman, *Vice-Chair*  
Ken Bassett  
Daniel Fleming  
Jay Franson, P.E.  
Helen Graber, Ph.D.  
Paul Hansen, P.E.  
Petra Rust  
Richard W. Sprott  
David K. Stevens, Ph.D.  
Ron Thompson  
Kenneth H. Bousfield, P.E.  
*Executive Secretary*

### DRINKING WATER BOARD MEETING

**JANUARY 14, 2009**  
**12:00 p.m.**

Place: DEQ's Offices  
168 North 1950 West, Room 101  
Salt Lake City, Utah 84116

Ken Bousfield's Cell Phone #: (801) 674-2557

1. Call to Order – Chairman Erickson
2. Roll Call – Ken Bousfield
3. Introductions – Chairman Erickson
4. Approval of Minutes – November 12, 2008
5. Arsenic Exemption Public Hearing
6. SRF/Conservation Committee Report – Vice Chairman Myron Bateman
  - 1) Status Report – Ken Wilde
  - 2) Project Priority List – Ken Wilde
  - 3) SRF Applications
    - a) Discussion on Interest & the Hardship Grant Assessment – Ken Wilde
    - b) St. George City – Michael Grange
    - c) Blanding City – Planning – Rich Peterson
    - d) Tridell LaPoint – Planning – Gary Kobzeff
    - e) Veyo Culinary Water Association – Planning – Gary Kobzeff
    - f) Kingston Town – Rich Peterson
    - g) Hyde Park – Julie Cobleigh
    - h) Corinne City – Jesse Johnson
    - i) Hinckley Town Report – Ken Wilde
  - 4) Consideration on Name Change – Ken Wilde

7. 2009 Approved Drinking Water Board Meeting Schedule
8. Rules R309-700 and 705: Set Rule Effective Date – Ken Wilde
9. Proposed Rule Amendments to: Rule R309-800 – Michael Grange
10. Proposed Substantive Rule Amendments – Bill Birkes and Bob Hart
  - a) R309-500-6(3)(b) - Waiting of Plan Submittal Requirement
  - b) R309-510-5 - Reduction of Sizing Requirement
  - c) R309-520-11 - Ozone Reference
  - d) R309-525-11(b)(c)(v) - Day Tank Drain Requirements
  - e) R309-530-6(5)(c) - Filtration Rate Range
  - f) R309-545-15(1) and (2) – Storage Tank Vent Design
11. Informational Discussion on Source, Storage, and the Instantaneous Demand for Irrigation in Drinking Water Regulations R309-510-7(3) and How it Differs from Water Rights - Bill Birkes
12. Status of Alta's Antimony Treatment Plant – Ken Bousfield
13. Rural Water Association's 2009 Annual Conference
14. Utah Water Users' 2009 Annual Conference
15. Rural Water Association of Utah Report
16. Letters
17. Chairman's Report – Chairman Erickson
18. Directors Report
  - a) Division Staff On-the-Spot Awards
  - b) Status Report on the Congressional Economic Recovery Appropriation
19. Next Board Meeting:  
*Date: March 5, 2009*  
*Time of Board Meeting: 2:00 p.m.*  
*Location: Dixie Convention Center*  
*1835 Convention Center Drive, (Garden Room)*  
*St. George, Utah 84770*
20. Other
21. Adjourn

**In compliance with the American Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Brooke Baker, Office of Human Resources at: (801) 536-4412, TDD (801) 536-4424, at least five working days prior to the scheduled meeting.**

## AGENDA ITEM 10

PROPOSED SUBSTANTIVE RULE AMENDMENTS  
RULES R309-500, 510-5, 520-11, 525-11(b)(c)(v), 530-  
6(5)(c), and 545-15(1) and (2)  
– Bill Birkes and Bob Hart

## **PROPOSED SUBSTANTIVE CHANGES FOR RULE R309-545**

Recently staff reviewed current engineering and construction rules and make the following recommendations suggested by staff, contractors or others.

Staff has found during sanitary surveys various styles of air vents on drinking water storage tanks which give them concern. Staff proposes to amend the present rule to clarify the meaning and intent of “inverted” and “open discharge.”

Staff proposes adding wording to R309-545-15(1) to indicate that an inverted vent be downturned a minimum of two inches below any opening or otherwise shielded to prevent the entrance of surface water and rainwater. In R309-545-15(2) staff proposes to change the rule to read “On buried structures, have the discharge a minimum of 24 inches above the earthen covering.”

**Staff Recommendation:** Staff, believing that the above mentioned changes are substantive, asks the Board to review the proposed changes and, if they agree, authorize staff to start the rulemaking process and file the proposed rule amendments for publication in the Utah Bulletin of February 1, 2009.

**R309. Environmental Quality, Drinking Water.**

**R309-545. Facility Design and Operation: Drinking Water Storage Tanks.**

**R309-545-1. Purpose.**

The purpose of this rule is to provide specific requirements for public drinking water storage tanks. It is intended to be applied in conjunction with other rules, specifically R309-500 through R309-550. Collectively, these rules govern the design, construction, operation and maintenance of public drinking water system facilities. These rules are intended to assure that such facilities are reliably capable of supplying adequate quantities of water which consistently meet applicable drinking water quality requirements and do not pose a threat to general public health.

**R309-545-2. Authority.**

This rule is promulgated by the Drinking Water Board as authorized by Title 19, Environmental Quality Code, Chapter 4, Safe Drinking Water Act, Subsection 104(1)(a)(ii) of the Utah Code and in accordance with Title 63G, Chapter 3 of the same, known as the Administrative Rulemaking Act.

**R309-545-3. Definitions.**

Definitions for certain terms used in this rule are given in R309-110 but may be further clarified herein.

**R309-545-4. General.**

Storage for drinking water shall be provided as an integral part of each public drinking water system unless an exception to rule is approved by the Executive Secretary. Pipeline volume in transmission or distribution lines shall not be considered part of any storage volumes.

**R309-545-5. Size of Tank(s).**

Required Storage Capacity: In the absence of firm water use data, at or above the 90% confidence level, storage tanks shall be sized in accordance with the recommended minimums of R309-510.

**R309-545-6. Tank Material and Structural Adequacy.**

(1) Materials.

The materials used in drinking water storage structures shall provide stability and durability as well as protect the quality of the stored water. Steel tanks shall be constructed from new, previously unused, plates and designed in accordance with AWWA Standard D-100.

(2) Structural Design.

The structural design of drinking water storage structures shall be sufficient for the environment in which they are located.

The design shall incorporate a careful analysis of potential seismic risks.

**R309-545-7. Location of Tanks.**

(1) Pressure Considerations.

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The location of the reservoir and the design of the water system shall be such that the minimum working pressure in the distribution system shall meet the minimum pressures as required in R309-105-9.

(2) Connections.

Tanks shall be located at an elevation where present and anticipated connections can be adequately served. System connections shall not be placed at elevations such that minimum pressures as required in R309-105-9 cannot be continuously maintained.

(3) Sewer Proximity.

Sewers, drains, standing water, and similar sources of possible contamination shall be kept at least 50 horizontal feet from the reservoir.

(4) Standing Surface Water.

The area surrounding a ground-level drinking water storage structure shall be graded in a manner that will prevent surface water from standing within 50 horizontal feet of the structure.

(5) Ability to Isolate.

Drinking water storage structures shall be designed and located so that they can be isolated from the distribution system.

Storage structures shall be capable of being drained for cleaning or maintenance without necessitating loss of pressure in the distribution system.

(6) Earthquake and Landslide Risks.

Potential geologic hazards shall be taken into account in selecting a tank location. Earthquake and landslide risks shall be evaluated.

(7) Security.

The site location and design of a drinking water storage reservoir shall take into consideration security issues and potential for vandalism.

**R309-545-8. Tank Burial.**

(1) Flood Elevation.

The bottom of drinking water storage reservoirs shall be located at least three feet above the 100 year flood level or the highest known maximum flood elevation, whichever is higher.

(2) Ground Water.

When the bottom of a drinking water storage reservoir is to be below normal ground surface, it shall be placed above the local ground water table elevation.

(3) Covered Roof.

When the roof of a drinking water storage reservoir is to be covered by earth, the roof shall be sloped to drain toward the outside edge of the tank.

**R309-545-9. Tank Roof and Sidewalls.**

(1) Protection From Contamination.

All drinking water storage structures shall have suitable watertight roofs and sidewalls which shall also exclude birds, animals, insects, and excessive dust.

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(2) Openings.

Openings in the roof and sidewalls shall be kept to a minimum and comply with the following:

(a) Any pipes running through the roof or sidewall of a metal drinking water storage structure shall be welded, or properly gasketed. In new concrete tanks, these pipes shall be connected to standard wall castings with seepage rings which have been poured in place. Vent pipes, in addition[s] to seepage rings, shall have raised concrete curbs which direct water away from the vent pipe and are formed as a single pour with the roof deck. No roof drains or any other pipes which may contain water of less quality than drinking water shall ever penetrate the roof, walls, or floor of a drinking water storage tank.

(b) Openings in a storage structure roof or top, designated to accommodate control apparatus or pump columns, shall be welded, gasketed, or curbed and sleeved as above, and shall have additional proper shielding to prevent vandalism.

(c) Openings shall be kept as far away as possible from the storage tank outlet and other sources of surface water.

(3) Adjacent Compartments.

Drinking water shall not be stored or conveyed in a compartment adjacent to wastewater when the two compartments are separated by a single wall.

(4) Slope of Roof.

The roof of all storage structures shall be designed for drainage. Parapets, or similar construction which would tend to hold water and snow, shall not be utilized unless adequate waterproofing and drainage are provided. Downspout or roof drain pipes shall not enter or pass through the reservoir.

**R309-545-10. Internal Features.**

The following shall apply to internal features of drinking water storage structures:

(1) Drains.

If a drain is provided, it shall not discharge to a sanitary sewer. If local authority allows discharge to a storm drain, the drain discharge shall have a physical air gap of at least two pipe diameters between the discharge end of the pipe and the overflow rim of the receiving basin.

(2) Internal Catwalks.

Internal catwalks, if provided and located so as to be over the drinking water, shall have a solid floor with raised edges. The edges and floor shall be so designed that shoe scrapings or dirt will not fall into the drinking water.

(3) Inlet and Outlet.

To minimize potential sediment flow from the structure, the normal outlet pipes from all reservoirs shall be located in a manner to provide a silt trap prior to discharge into the distribution system.

(4) Disinfection.

If the drinking water reservoir is to be utilized as a contact basin for disinfection purposes, the design engineer shall

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conduct tracer studies or other tests, previously approved by the Executive Secretary, to determine the minimum contact time and the potential for short circuiting.

**R309-545-11. ANSI/NSF International, Standard 61.**

(1) ANSI/NSF Standard 61 Certification.

All interior surfaces or coatings shall consist of products which are certified by laboratories approved by ANSI and which comply with ANSI/NSF Standard 61 or other standards approved by the Executive Secretary. This requirement applies to any pipes and fittings, protective materials (e.g. paints, coatings, concrete admixtures, concrete release agents, concrete sealers), joining and sealing materials (e.g. adhesives, caulks, gaskets, primers and sealants) and mechanical devices (e.g. electrical wire, switches, sensors, valves, submersible pumps) which are located so as to come into contact with the drinking water.

(2) Curing Time and Volatile Organic Compounds.

If products which require a cure or set time are utilized in such a way as to come into contact with the drinking water, then water shall not be introduced into the vessel until any required curing time has passed. It shall be the responsibility of the water purveyor to assure that no tastes or odors, toxins or other compounds, which result in MCL exceedances, are imparted to the water as a result of tank repair.

**R309-545-12. Steel Tanks.**

(1) Paints.

Proper protection shall be given to all metal surfaces, both internal and external, by paints or other protective coatings. Internal coatings shall comply with ANSI/NSF Standard 61.

(2) Cathodic Protection.

If installed, internal cathodic protection shall be designed, installed and maintained by personnel trained in corrosion engineering.

**R309-545-13. Tank Overflow.**

All water storage structures shall be provided with an overflow which is discharged at an elevation between 12 and 24 inches above the ground surface with an appropriate air gap. The discharges shall not cause erosion.

(1) Diameter.

All overflow pipes shall be of sufficient capacity to permit waste of water in excess of the filling rate.

(2) Slope.

All overflow pipes shall be sloped for complete drainage,

(3) Screen.

All overflow pipes shall be screened with No. 4 mesh non-corrodible screen installed at a location least susceptible to damage by vandalism,

(4) Visible Discharge.

All overflow pipes shall be located so that any discharge is visible,

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(5) Cross Connections.

All overflow pipes shall not be connected to, or discharge into, any sanitary sewer system.

(6) Paint.

If an overflow pipe within a reservoir is painted or otherwise coated, such coating shall comply with ANSI/NSF Standard 61.

**R309-545-14. Access Openings.**

Drinking water storage structures shall be designed with reasonably convenient access to the interior for cleaning and maintenance.

(1) Height.

There shall be at least one opening above the water line which shall be framed at least four inches above the surface of the roof at the opening; or if on a buried structure, shall be elevated at least 18 inches above any earthen cover over the structure. The frame shall be securely fastened and sealed to the tank roof so as to prevent any liquid contaminant entering the tank. Concrete drinking water storage structures shall have raised curbs around access openings, formed and poured continuous with the pouring of the roof and sloped to direct water away from the frame.

(2) Shoebox Lid.

The frame of any access opening shall be provided with a close fitting solid shoebox type cover which extends down around the frame at least two inches and is furnished with a gasket(s) between the lid and frame,

(3) Locking Device.

The lid to any access opening shall have a locking device.

**R309-545-15. Venting.**

Drinking water storage structures shall be vented. Overflows shall not be considered as vents. Vents provided on drinking water storage reservoirs shall:

(1) Inverted Vent.

Be downturned a minimum of two inches below any opening or shielded to prevent the entrance of surface water and rainwater.

(2) Open Discharge.

On buried structures, have the discharge a minimum of 24 [~~to 36~~] inches above the earthen covering.

(3) Blockage.

Be located and sized so as to avoid blockage during winter conditions.

(4) Pests.

Exclude birds and animals.

(5) Dust.

Exclude insects and dust, as much as this function can be made compatible with effective venting.

(6) Screen.

Be fitted with No. 14 mesh or finer non-corrodible screen.

(7) Screen Protector.

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Be fitted with additional heavy gage screen or substantial covering which will protect the No. 14 mesh screen against vandalism and, further, discourage purposeful attempts to contaminate the reservoir.

**R309-545-16. Freezing Prevention.**

All drinking water storage structures and their appurtenances, especially the riser pipes, overflows, and vents, shall be designed to prevent freezing which may interfere with proper functioning.

**R309-545-17. Level Controls.**

Adequate level control devices shall be provided to maintain water levels in storage structures.

**R309-545-18. Security.**

Locks on access manholes, and other necessary precautions shall be provided to prevent unauthorized entrance, vandalism, or sabotage.

**R309-545-19. Safety.**

(1) Utah OSHA.

The safety of employees shall be considered in the design of the storage structure. Ladders, ladder guards, platform railings, and safely located entrance hatches shall be provided where applicable. As a minimum, such matters shall conform to pertinent laws and regulations of the Utah Occupational Safety and Health Administration.

(2) Ladders.

Generally, ladders having an unbroken length in excess of 20 feet shall be provided with appropriate safety devices. This requirement shall apply both to interior and exterior reservoir ladders.

(3) Requirements for Elevated Tanks.

Elevated tanks shall have railings or handholds provided for transfer from the access tube to the water compartment.

**R309-545-20. Disinfection.**

Drinking water storage structures shall be disinfected before being put into service for the first time, and after being entered for cleaning, repair, or painting. The reservoir shall be cleaned of all refuse and shall then be washed with potable water prior to adding the disinfectant. AWWA Standard C652-02 shall be followed for reservoir disinfection, with the exception there shall be no delivery of waters used in the disinfection process to the distribution system, unless specifically authorized, in writing, by the Executive Secretary.

Upon completing any of the three methods for storage tank chlorination, as outlined in AWWA C652-02, the water system must properly dispose of residual super-chlorinated waters in the outlet pipes. Other super-chlorinated waters, which are not to be ultimately diluted and delivered into the distribution system, U:\dr\_water\DIRECTOR\LMATULIC\BOARD\BOARD PACKET MATERIALS\2009\JANUARY\WORD DOCUMENTS\Revised r309-545.rtf

shall also be properly disposed.

Chlorinated water discharged from the storage tank shall be disposed of in an acceptable manner and in conformance with the rules of the Utah Water Quality Board (see R317 of the Utah Administrative Code).

**R309-545-21. Incorporation by Reference.**

The following list of Standards shall be considered as incorporated by reference in this specific rule. The most recent published copy of the referenced standard will apply in each case.

- (1) AWWA Standards.
  - (a) C652-02, Disinfection of Water Storage Reservoirs.
  - (b) D100-05, Welded Steel Tanks for Water Storage.
  - (c) D101-53(R86), Inspecting and Repairing Steel Water Tanks, Standpipes, Reservoirs, and Elevated Tanks for Water Storage.
  - (d) D102-03, Coating Steel Water-Storage Tanks.
  - (e) D103-97, Factory-Coated Bolted Steel Tanks for Water Storage.
  - (f) D104-01, Automatically Controlled, Impressed-Current Cathodic Protection for the Interior of Steel Water Tanks.
  - (g) D110-04, Wire-Wound Circular Prestressed-Concrete Water Tanks (including addendum D110a-96).
  - (h) D115-95, Circular Prestressed Concrete Water Tanks With Circumferential Tendons.
  - (i) D120-02, Thermosetting Fiberglass-Reinforced Plastic Tanks.
  - (j) D130-02, Flexible-Membrane-Lining and Floating-Cover Materials for Potable-Water Storage.
- (2) NSF International Standards.
  - (a) NSF 60, Drinking Water Treatment Chemicals - Health Effects.
  - (b) NSF 61, Drinking Water System Components - Health Effects.
- (3) Utah OSHA.

Applicable standards of the Utah Occupational Safety and Health Administration are hereby incorporated by reference.

**R309-545-22. Operation and Maintenance of Storage Tanks.**

- (1) Inspection and Cleaning.

Tanks which are entered for inspection and cleaning shall be disinfected in accordance with AWWA Standard C652-02 prior to being returned to service. When diver(s) enter storage tanks that have not been drained for inspection purposes, they shall comply with section five of the above standard unless the tank is constructed of steel, in which case they shall comply additionally with AWWA Standard D101-53(R86).

- (2) Recoating or Repairing.

Any substance used to recoat or repair the interior of drinking water storage tank shall be certified to conform with ANSI/NSF Standard 61. If the tank is not drained for recoating or repairing, any substance or material used to repair interior

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coatings or cracks shall be suitable for underwater application, as indicated by the manufacturer, as well as comply with both ANSI/NSF Standards 60 and 61.

(3) Seasonal Use.

Water storage tanks which are operated seasonally shall be flushed and disinfected in accordance with AWWA Standard C652-02 prior to each season's use. Certification of proper disinfection, as evidenced by at least one satisfactory bacteriologic sample, shall be obtained by the system management and kept on file for inspection by personnel of the Division. During the non-use period, care shall be taken to see that openings to the water storage tank (those which are normally closed and sealed during normal use) are closed and secured.

**KEY: drinking water, storage tanks, access, overflow and drains**

**Date of Enactment or Last Substantive Amendment: February, 2009 [~~March 8, 2006~~]**

**Notice of Continuation: April 2, 2007**

**Authorizing, and Implemented or Interpreted Law: 19-4-104**

## AGENDA ITEM 13

### RURAL WATER ASSOCIATION'S 2009 ANNUAL CONFERENCE

**RURAL WATER ASSOCIATION OF UTAH'S  
2009 ANNUAL CONFERENCE  
MARCH 2 – 6, 2009  
ST. GEORGE, UTAH**

The Rural Water Association of Utah's 2009 Annual Conference will be held March 2 – 6, 2009 at the Dixie Convention Center in St. George, Utah. The Conference Booklet is on-line for you to view. A copy of the program is also with this agenda item.

Linda will have a copy of the booklet for you at the January Board meeting. You can also log on to Rural Water's website address at: [www.rwau.net](http://www.rwau.net).

Linda will be registering each of you for the full conference, except for Danny.

The Board meeting is set for March 5, 2009 from 2 p.m. go 5:00 p.m. in the Garden Room.

Linda has made the motel reservations for the Board. Linda has a block of rooms set up at the Abbey Inn. The reservation list for the Abbey Inn is attached with your confirmation number. Abbey Inn, 1129 South Bluff Street, St. George, Utah 84770, phone: (435) 652-1234. Linda talked to Moe and Jordan.

Please let Linda know as soon as you can if she needs to make any changes for the motel and/or the registration for the conference.

Submit your motel bill to Linda when you return home from the conference, and let her know the time and day you left and the time and day you returned home. You will receive travel expenses and registration costs for the conference.

If you have any questions, please call Linda at (801) 536-34208.



CONFIRMATION NUMBERS AT THE  
ABBEY INN FOR THE  
DRINKING WATER BOARD MEMBERS

THE ABBEY INN  
1129 SOUTH BLUFF STREET  
ST. GEORGE, UTAH 84770  
PHONE: (435) 652-1234

1.	Anne Erickson	Confirmation # 35953
2.	Helen Graber	Confirmation # 35958
3.	Jay Franson	Confirmation # 35956
4.	Ken Bassett	Confirmation # 35955
5.	Paul Hansen	Confirmation # 35954
6.	David Stevens	Confirmation # 35957
7.	Petra Rust	Confirmation # 35967
8.	Bill Sinclair	Confirmation # 35959
9.	Danny Fleming	Confirmation # 35952

Myron will be staying at another motel.  
Ron, of course, will be at his home.

Danny – If Rural Water has chosen another hotel for you,  
please let me know and I will cancel the room  
for you.



# 2009



## R u r a l W a t e r

Annual Conference

March 2-6, 2009

The Dixie Center

St. George, Utah

# RWAU

Water:

# The Perfect Balance



The Dixie Center  
1835 Convention Center Drive  
St. George, UT 84790



# Welcome!

to the

## 2009 Annual Conference

On behalf of the RWAU board and staff, I would like to welcome you to the Rural Water Association of Utah Annual Management and Technical Conference. With an Exhibit Hall full of vendors ready to display new products and answer your questions, a training agenda packed with current, need-to-know information, and an awards ceremony and entertainment featuring country music star **Collin Raye**, we can't wait to get the show on the road!

Join us at Wednesday night's **Awards Banquet**, where we will honor RWAU member systems and operators that have done an outstanding job of running their water or wastewater systems, after which we will be entertained by one of country music's all-time favorite artists—**COLLIN RAYE!** Collin—a recent Utah resident—has been a country music staple for years. With such smash hits as "Love Me" and "Little Rock" in his repertoire, he puts on a show that is not to be missed. This year he will be playing an acoustic concert just for us—get your tickets early as seating will be limited!

In addition to the banquet, I would especially like to invite all Voting Members to our **Annual Membership Meeting** on Thursday. Your presence and participation at this important meeting are both needed and appreciated. We would like to also invite **EVERY SYSTEM** to bring a sample of their water for the **Best Water in Utah contest**—you never know what might happen!

We are excited to share this Conference with all of the water and wastewater personnel in Utah—as well as with the many support personnel who are so vital to all of our success. As we embark on another year of service, remember that water truly is "**THE PERFECT BALANCE.**" Every day people in the water and wastewater industry balance the requirements of the State and the EPA, customer expectations, personnel issues, basic operation and maintenance, treatment, billing, meter reading, and the list goes on and on. But this perfect balance helps us all to maintain the high standards rural Utah's water and wastewater industry have come to uphold and represent. And in the meantime, we should all search for better ways to raise the quality of our products and services and pursue new opportunities for improvement. Be sure to have a great week and enjoy the Conference!

<p>Water: The Perfect Balance</p> 	<p>2009</p> 	 <p>Sincerely, <b>Doug Evans</b> <i>RWAU Board President</i></p> <p><b>March 2-6, 2009</b></p>
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Thank you to our  
Rural Water Board  
who tirelessly serve the  
citizens of rural Utah.  
We appreciate your service!

# Rural Water

## Board Members

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### RWAU Vice-President

Bill Mickelson  
Manti  
District 4  
Term Expires 2009



### RWAU President

Doug Evans  
Oakley  
District 3  
Term Expires 2009



### RWAU Sec/Treas

Gary Larsen  
Millville  
District 1  
Term Expires 2009



### Past President

Danny Fleming  
Blanding  
District 5  
Term Expires 2009



### NRWA Board

Paul Fulgham  
Tremonton  
District 1  
Term Expires 2011



Neil Forster  
Sherwood Water

District 4  
Term Expires 2011



Darwin Hall  
Ash Creek SSD  
District 6  
Term Expires 2009



Garland Mayne  
Timpanogos SSD  
District 2  
Term Expires 2009



Boyd Workman  
Ashley Valley W&S ID  
District 3  
Term Expires 2011



Brett Chynoweth  
Tropic  
District 6  
Term Expires 2011



Ken Snook  
Price River Water  
District 5  
Term Expires 2011



Ken Orton  
Highlands Water Co.  
District 2  
Term Expires 2009

Our mission is to provide professional training, support services and representation for water and wastewater members to help enhance the quality of service to their customers.

# Rural Water

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## Staff Members



**Executive Director**  
Dale Pierson



**State Circuit Rider**  
Charles Jeffs



**Wastewater Tech**  
Terral Dunn



**Membership/Seminars**  
Ellen Copfer



**Chief Financial Officer**  
Vern Steel



**Management Tech.**  
Curtis Ludvigson



**Development Specialist**  
Clyde Watkins



**Event Planner**  
Shannon Rasmussen



**Database Specialist**  
Diana Waite



**Source Water Tech.**  
Erin Borger



**Training Specialist**  
Kcris Hunter



**North Circuit Rider**  
Greg Johnson



**South Circuit Rider**  
Terry Smith



**Admin. Assistant**  
Amber Higgins



**Data Entry (DDW)**  
Cherie Heath



**Secretary (DDW)**  
Jennifer Yee



# Golf Scramble

## Details

Tuesday, March 3, 2009

### SUNBROOK GOLF COURSE

ST. GEORGE, UTAH ~ 2366 West Sunbrook Dr. ~ St. George, Utah 84770

- 9:00 am Shotgun Start
- 4-Person Scramble (2 flights)
- Entry fee is \$80 per golfer
- Entry Fee includes:
  - Continental Breakfast
  - Tee Time
  - Cart
  - Lunch
  - Giveaways
  - Prizes
- Total team handicap determines flight
- Winners awarded prizes immediately following tournament
- Hole-in-One prizes on every par three, including \$5,000 Cash!

## \$5,000

### Hole-In-One



### DRIVING DIRECTIONS FROM THE DIXIE CENTER TO SUNBROOK:

1. From Dixie Center, go North on S. Convention Center DR toward 1670 S.
2. Turn left onto S Bluff ST/Riverside DR. Continue to follow S Bluff ST.
3. Turn left onto Hilton Drive.
4. Hilton DR becomes Tonaquint DR.
5. Turn right onto S Dixie DR.
6. Turn Left onto W Sunbrook DR.

1.



2.



3.



4.



5.



6.



# Awards Banquet

Page 7

## Dixie Center Ballrooms

Wednesday, March 4, 2009 | 7:00 pm

**D**on't miss your chance to attend the highlight of the Conference—the Awards Banquet! Enjoy a fabulous Dixie Center dinner, then watch as your peers (or you!) are awarded for jobs well done in 2008. After the Awards, sit back and enjoy the awesome entertainment provided by:

### Collin Raye



Wednesday, March 4, 2009 · 7:00 pm

**C**ollin Raye—one of country music's most popular and touching artists, and a recent Utah resident—shot to fame in 1991 with his smash hit "Love, Me". Listeners were so touched that they used its lyrics at funerals and memorial services.

His song "Little Rock" was an anthem for the recovery community. "Not That Different" pleaded for tolerance. "In This Life" became a wedding favorite. And Collin still puts on shows that are electrifying in their intensity.

But as he keeps up a full concert and recording schedule, Collin has found that there is something deeper and more profound about what he does than merely entertaining people.

"In the beginning, I wanted hits and all that," he reflects. "But what drives me now is what this music means to people. Songs have landed on me that made me realize there's more to this than I thought. It's about entertaining people one minute and inspiring them the next. That's what gets me on that tour bus every week. That's what keeps me interested in making records."

Collin has consistently used his stardom to advance social causes & feels strongly about giving back to the community in every way possible.

We are thrilled to have Collin perform for us this year and feel confident this will be an evening you won't soon forget!

One Banquet ticket is included in the price of registration on **Full Conference** and **both Operator Certification** registration options. If you did not register with one of these options, or if you need additional tickets, you may purchase them for \$50.00 per ticket using the form at the back of this booklet—the excellent meal and entertainment will not let you down!!!



# Water Operator

## Certification

Sunbrook ABC

### Monday, March 2—Friday, March 6

#### WATER OPERATOR CERTIFICATION

- The certification class is designed to train operators testing on all levels of certification for water treatment and distribution.
- Training sessions will run from **Monday afternoon, March 2—Thursday, March 5.**
- The State will offer the exam during the Rural Water Conference on **Friday, March 6 from 9:00 am — 12:00 pm** (*You need to register for the test SEPARATELY by contacting Diana Waite in the Rural Water Office. 801-756-5123*)
- The last day to register to take the Exam is **FEBRUARY 13, 2009!**

#### TESTING

*\*The Certification Review Class Fee and the Exam Fee are combined together this year. You will be paying the Testing Fee with the Certification Review Class Fee when you register for the Review Class on the Rural Water registration form. Contact Diana Waite in the Rural Water office (801-756-5123) to register for the test by Feb. 13!*

- **CERTIFICATION REVIEW CLASS** — \$425.00 (member rate) covers Certification Review Class costs, and the State Testing Fee, payable to Rural Water.
- **STATE EXAM** —Contact Diana Waite at (801) 756-5123 or email [dwaite@rwau.net](mailto:dwaite@rwau.net) to register & pay for the State Exam.
- The Exam registration **DEADLINE IS FEBRUARY 13, 2009! YOU MUST REGISTER FOR THE TEST SEPARATELY BY CONTACTING DIANA WAITE IN THE RURAL WATER OFFICE BEFORE FEB. 13th!**

## Exam Details:

The exam will be offered to  
**ALL GRADE LEVELS in DISTRIBUTION & TREATMENT**

**THE EXAM WILL BE HELD:**  
**FRIDAY, MARCH 6, 2009 | 9:00 AM—12:00 NOON**  
(Sunbrook ABC)

You will need two sharp #2 pencils, a good eraser, and a non-programmable calculator to take your exam.  
(No programmable / text capable calculators or PDAs will be allowed!)

*Seating is limited, so register early. Those taking the exam will have seating priority. There will be NO On-Site Registration for this test. Those not registered by the Feb. 13th deadline will have to wait for the next testing opportunity to take the test.*

# Wastewater Operator

Page 9

Certification

Entrada ABC

## Monday, March 2—Friday, March 6

### WASTEWATER CERTIFICATION

- The certification class will cover Lagoons and Levels I & II for Treatment & Collections.
- To be able to take a Wastewater Certification Exam, you must register separately with the Division of Water Quality **NO LATER THAN FEBRUARY 5, 2009 (BEFORE 6:00 PM.)**
- The State will offer the exams during the Rural Water Conference on Friday, March 6, from 9:00 a.m.—12:00 noon.
- You will be able to take any level of wastewater **EXAM**.

*(The CERTIFICATION CLASS is designed for Lagoons, Treatment, & Collections Levels I & II)*

### CERTIFICATION & EXAM FEES

*\*The Certification Review Class Fee and the State Exam Fee are two SEPARATE fees: Pay the Exam Fee to the State. Pay the Certification Review Class Fee to Rural Water.*

- **CERTIFICATION REVIEW CLASS FEE\***—\$325 (member rate) covers Certification Review Class costs, payable to Rural Water.
- **STATE EXAM FEE**—Contact Judy Etherington at (801) 538-6062 or download an Exam application from [www.waterquality.utah.gov/OpCert/](http://www.waterquality.utah.gov/OpCert/) to register & pay for the exam. The exam registration **DEADLINE** is **February 5, 2009 before 6:00 pm!**

**Registration & exam fee must be received by the Division of Water Quality NO LATER THAN February 5th!!**

## Exam Details:

Exams will be offered to **ALL GRADE LEVELS** in  
**COLLECTION & TREATMENT**

**EXAMS WILL BE HELD:**

**FRIDAY, MARCH 6**

**9:00 am—12:00 pm (Entrada ABC)**

You will need two sharp #2 pencils, a good eraser, a photo ID and a nonprogrammable calculator to take your exam.

*(If you choose to take advantage of this testing opportunity, you will not be allowed to take the exam again in April, as these testing results will not yet be available.)*

Wednesday  
Thursday  
Friday

# Partner's Program

The Partner's Program provides activities for the wife/spouse/partner/significant other of attendees at the Annual Conference. With or without the tour, registration includes access to the Exhibit Hall and all the training sessions, plus coffee / juice / donut each morning, and lunch on Wednesday and Thursday. The Partner's Program also features door prizes just for you!

## Wednesday, March 4, Craft Workshop:

3:00—4:30 | Entrada A

Come get your artistic juices flowing at our Make-and-Take Workshop!  
We'll be assembling a **CERAMIC TILE PLAQUE**:

Express yourself with this cute and clever craft that sits on a shelf. Choose from several sayings available to match your sentiment and walk away with a new decoration for your home!

*(Craft activities presented by VondaKay Lofley, Elmo, Utah)*

## Thursday, March 5, Tour:

### Frontier Movie Town

Join our tour guide Brenda for a rip-roarin' good time in Kanab at the Frontier Movie Town. We'll be treated to a live wild west show and served a delicious Dutch oven cowboy-style lunch. Then we'll tour the Best Friends Animal Sanctuary, home to over 2000 rescued dogs, cats and other animals. Fun games and surprise gifts on our return trip. Seating on the bus is limited to first-come first-serve, and early registration is critical. **Your Dutch oven lunch is included in the tour fee.** *Presented by Color Land Tours, Hurricane.*

## The Perfect Balance

- Meet at the Dixie Center south parking lot at 8:45 am
- Bus leaves **promptly** at 9 am
- Tour will return around 5 pm
- There is an extra charge for the tour.

*(See registration form in back of booklet.)*

## Friday, March 6 Activity:

### Craft Workshop

8:30—10:00 | Garden Room

Sunflower Door Hanger:

Add your personal creativity to this cute decoration that you assemble and paint.  
BYOPS—(bring your own paint shirt!)

Presented By: **VondaKay Lofley**  
Elmo, Utah

## Door Prizes:

Drawings for all door prizes for the Partners Program will be held during the craft project on Friday in the *Garden Room*.

Deposit your drawing ticket at the  
RWAU Door Prize Booth  
(#817) in the Exhibit Hall.

*(Must be present to win.)*

**Get your 2008 Reports Completed!**

For your convenience, Rural Water and the Division of Drinking Water will be available throughout the conference to help you complete your Consumer Confidence Reports for the 2008 calendar year.

CCR appointments will be scheduled at the following times:

**2009**

**Tuesday**, March 3 — 1:00 to 4:30 p.m.

**Wednesday**, March 4 — 9:00 a.m. to 4:30 p.m.

**Thursday**, March 5 — 8:00 a.m. to 4:30 p.m.

**Friday**, March 6 — 8:30 a.m. to 11:00 a.m.

**IMPORTANT:** You must make an appointment by calling Amber Higgins in the RWAU office at (801) 756-5123 before February 20, 2009 to complete your CCR at the Conference.

**WHAT YOU NEED TO BRING:**

- Last year's Consumer Confidence Report—on a USB flash drive if possible. (*Word & WordPerfect both supported—paper copy ok if necessary.*)
- The monitoring data needed for your CCR will be made available by Division of Drinking Water at the workshop

***NOTE: IF THE DIV. OF DRINKING WATER HAS NOT RECEIVED ALL OF YOUR MONITORING DATA FOR 2008, THEY WILL NOT BE ABLE TO COMPLETE YOUR CCR AT THE CONFERENCE.***

*CCR Completion will be offered in the following Mezzanine Room above the Exhibit Hall:*

**The Snow Canyon Room**

*(Contact Amber Higgins at the RWAU Office at 801-756-5123 before Feb. 20th to make an appointment. If time permits, walk-ins may be accommodated, but appointments take precedence.)*

# Division of Drinking Water

For your convenience, the Division of Drinking Water is conducting 2 additional "workshops" during Conference this year:

## Rules Workshops

### IDSE & Groundwater Rule

#### Stage 2 Disinfection By-Product Rule, Initial Distribution System Evaluation (IDSE) Report

**Purpose:** Division staff will guide you through filling out the IDSE report and help you determine Stage 2 sample sites and sampling requirements.

**Who Should Schedule a Meeting:** All systems taking IDSE samples that have completed 1 year of monitoring.

**Time:** The workshop will take approximately 15-30 minutes

**Please Bring:**

- Your IDSE Sample Plan
- IDSE and Stage 1 sample results
- Map of your distribution system

The IDSE workshop will be offered on the Mezzanine Level in the following room:

### The Bryce Room

#### Groundwater Rule: Sampling Siting Plan Revision

##### Purpose:

Division staff will guide you through revising your Bacteriological Sample Siting plan. The plan will have to identify the appropriate sources to sample after any routine total coliform sample is positive.

**Who Should Schedule a Meeting:** All Public Water Systems

**Time:** The workshop will take approximately 15-30 minutes

**Please Bring:**

- Map of your distribution system with the location of your sources and tanks.

The Groundwater workshop will be offered on the Mezzanine Level in the following room:

### The Zion Room

## Session Times:

Tuesday, March 3 — 1:00 p.m. to 4:30 p.m.

Wednesday, March 4 — 9:00 a.m. to 4:30 p.m.

Thursday, March 5 — 8:00 a.m. to 4:30 p.m.

You will have to make an appointment for each workshop. To schedule a time for either workshop, please call Jennifer Yee at 801-536-4216 before Feb. 20th.

**NOTE:** Division engineering staff will be available in the Pine Valley Mezzanine room to confer on system infrastructure, capacity and plan review issues. Please call Ying-Ying Macauley at 801-536-4188 (work) or 801-243-4866 (cell), or visit the Division of Drinking Water booth during the conference to schedule a time to meet with a DDW engineer.

# Skeet Shoot

2009

Thursday, March 5, 2009 | 3:30 pm

## SOUTHERN UTAH SHOOTING SPORTS PARK

HURRICANE, UTAH ~ Near Fairgrounds in Hurricane (Maps will be available at Conference)

2009

- > Skeet Shoot will be held Thursday, March 5, 2009
- > 3:30 pm Shooting Starts—Continues until dark
- > Entry fee is \$30 per Shooter for the first round, \$5 for each additional round
- > You must bring your OWN Gun & Shells
- > Entry Fee includes Safety Glasses, Ear Protection & 50 Targets of either: Sporting Clays, 5-Stand, Trap, or Skeet

### Shooting Prizes

Awarded

**REGISTRATION FORM:** Fill out the following form and include it with your Conference Registration to register for the Skeet Shoot.

Shooter #1: \_\_\_\_\_ System: \_\_\_\_\_

☐ Sporting Clays ☐ 5-Stand ☐ Trap ☐ Skeet

Shooter #2: \_\_\_\_\_ System: \_\_\_\_\_

☐ Sporting Clays ☐ 5-Stand ☐ Trap ☐ Skeet

Shooter #3: \_\_\_\_\_ System: \_\_\_\_\_

☐ Sporting Clays ☐ 5-Stand ☐ Trap ☐ Skeet

Shooter #4: \_\_\_\_\_ System: \_\_\_\_\_

☐ Sporting Clays ☐ 5-Stand ☐ Trap ☐ Skeet

# of Shooters: \_\_\_\_\_ X \$30 = \$ \_\_\_\_\_

Additional Rounds: \_\_\_\_\_ X \$20 = \$ \_\_\_\_\_

Total: \_\_\_\_\_

Please add the total amount to the Skeet Shoot line on your registration form.

Send this page in with your registration form as well.

**DRIVING DIRECTIONS** will be included in your registration packet and made available at the front desk at Conference.

The Perfect  
Balance

# Conference

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## At-a-Glance

### Water & Wastewater Operator Certification—Monday, March 2

12:00 p.m. Registration Opens  
1:00 – 5:00 p.m. Water & Wastewater Operator Certification Classes BEGIN

### Operator Cert., In-Depth Training, Golf Scramble—Tuesday, March 3

7:30 – 11:00 a.m. Registration  
10:00 – 6:00 p.m. Exhibitor Set-up  
8:00 – 8:30 a.m. Coffee / Donut / Juice (*North Lobby*)  
8:30 – 10:00 a.m. Training / Water Op. Cert. / Wastewater Op. Cert.  
**9:00 – 4:00 p.m. Golf Scramble (*Sunbrook Golf Course*)**  
10:15 – 11:45 a.m. Training / Water Op. Cert. / Wastewater Op. Cert.  
11:45 – 1:00 p.m. Lunch (*North Lobby*)  
1:00 – 2:30 p.m. Training / Water Op. Cert. / Wastewater Op. Cert.  
2:45 – 4:15 p.m. Training / Water Op. Cert. / Wastewater Op. Cert.

### Conference – Wednesday, March 4

7:30 – 5:00 p.m. Registration  
7:30 a.m. Exhibit Hall OPENS  
7:30 – 9:00 a.m. Coffee/Donut/Juice (*Exhibit Hall*)  
9:00 – 10:00 a.m. Training  
10:30 – 11:30 a.m. Training  
11:30 – 1:00 p.m. Lunch / Exhibit Hall  
**1:00 – 2:00 p.m. General Session (*Ballroom*)**  
2:00 – 3:00 p.m. Exhibit Hall  
3:00 – 5:00 p.m. Training  
**7:00 – 9:00 P.M. AWARDS BANQUET (*BALLROOM*)**



#### ATTEND CONFERENCE AND EARN:

.6 CEU for In-Depth Training (*Tues.*)  
1.0 CEU for Conference (*Wed.-Fri.*)  
1.6 CEU for Water Op. Cert. (*Tues.-Fri.*)  
1.6 CEU for WW Op. Cert. (*Tues.-Fri.*)

### Conference –Thursday, March 5

7:30 – 5:00 p.m. Registration  
7:30 a.m. Exhibit Hall OPENS  
7:30 – 9:00 a.m. Coffee/Donut/Juice (*Exhibit Hall*)  
8:45 a.m. Partners Tour (*Meet at the Dixie Center's South Parking Lot*)  
9:00 – 10:00 a.m. Training  
**10:30 – 12:00 P.M. VOTING MEMBERSHIP MEETING/WATER TASTE CONTEST (*TOP 3*)**  
12:00 – 1:00 p.m. Lunch / Exhibits (*Exhibit Hall*)  
1:00 p.m. Exhibit Hall CLOSED / Exhibit Take-down  
1:00 – 2:00 p.m. Training  
2:00 – 5:00 p.m. Drinking Water Board Meeting (*Garden Room*)  
2:00 – 2:15 p.m. Break (*North Lobby*)  
2:15 – 3:45 p.m. Training  
**3:30 P.M. SKEET SHOOT**

### Conference –Friday, March 6

7:30 – 8:30 a.m. Registration  
9:00 – 12:00 p.m. Water & WW Operator Certification Exam  
8:30 – 9:30 a.m. Training / Water & WW Certification Exam  
8:30 – 9:30 a.m. Partners Session and Door Prizes (*Garden Room*)  
9:45 – 10:45 a.m. Training / Water & WW Certification Exam  
11:00 – 12:00 p.m. Training / Water & WW Certification Exam  
**12:00 P.M. (*BALLROOM ABCD*) EVAL. FORM DOOR PRIZE DRAWING / RAFFLE DRAWING**  
12:45 p.m. Adjourn

2009

Tuesday  
March 3, 2009

# In-Depth

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## Training Sessions

### MANAGEMENT / ELECTED OFFICIALS (*MUSEUM*)

#### WATER RIGHTS 101

8:30—10:00 am

Water rights are critical to water system operations. Attend this workshop and learn not only basic Utah water law and water rights procedures, but also get an update on recent water rights legislation passed in 2008 and what is under consideration in 2009. This session is a must for any newcomers on the water rights scene and a great recap for those who have been around a while.

**John Mabey**

*Mabey, Wright & James*

#### CHANGES IN WATER RIGHTS LAW

10:15—11:45 am

Wondering what is new with the water rights in Utah? Or if those changes could affect your water rights now or in the future? Attend this session to learn the latest and hear discussion on changes in the water rights law currently affecting the public water supplies and water systems in Utah. Come away knowing what the latest in Utah water rights and if it affects you.

**TBA**

*Div. of Water Rights*

#### SUSTAINABLE INFRASTRUCTURE

1:00—2:30 pm

Sustainable development is "meeting the needs of the present generation without compromising the ability of future generations to meet their needs." We benefit today from the investment in infrastructure made by previous generations—but most of our nation's infrastructure was installed in the 30 years following WWII. This initiative is a means of identifying best practices that will help systems address a variety of management issues, including aging infrastructure, management practices, full-cost pricing, efficient water use, and watershed approaches.

**Michael Grange & Ken Wilde** | *Div. of Drinking Water*

#### UTAH FUNDING: AGENCIES & OPTIONS

2:45—4:15 pm

With so many funding options available in Utah, do you know where to turn for financial help? Who requires what, what do you qualify for and where is it available? Attend this session to get the scoop on all of the different funding agencies in Utah. From the Division of Drinking Water and USDA Rural Development to agencies you may not realize exist—if you are in the market for funding, this is one session you can't afford to miss!

**Curtis Ludvigson** | *Rural Water Staff*

### ENGINEERS (*BALLROOM E*)

#### POWER QUALITY AND SURGE PROTECTION

8:30—10:00 & 10:15—11:45 am  
(Continued Session)

This in-depth session will cover the essential aspects of the Power Quality Pyramid. This includes proper grounding for separately derived and non-separately derived power systems, how and why power system surges are created and how to protect your power system.

We will also receive an introduction to power system harmonics: their creation and mitigation, Power Factor and its effects, and the proper application of standby generators. Case studies of power system problems and their solutions will be presented.

**Craig Hartman**

*Energy Management Corp.*

#### ADVANTAGES OF SOFT STARTS & VFDs

1:00—2:30 & 2:45—4:15 pm  
(Continued Session)

This introduction to the basic theory of motor control, will contrast the advantages and disadvantages of using soft starts versus VFD's. The different technologies used and the advantages and disadvantages of each will be covered. We will also get an overview of the harmonic mitigation methods available and their costs, as well as how to protect motors from the deleterious effects of VFD's. This session will teach students how to calculate energy savings and payback and will cover the pitfalls of applying soft starts and VFD's with many case studies. Time permitting, a hands-on VFD programming examples will be presented.

**Craig Hartman**

*Energy Management Corp.*



Tuesday  
March 3, 2009

# In-Depth

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## Training Sessions

### WATER (BALLROOM AB)

#### COMPREHENSIVE WATER AUDITS: ACCOUNTING FOR EVERY DROP

8:30—10:00 & 10:15—11:45 am  
(Continued Session)

Attend this in-depth presentation and learn the difference between a basic water audit and a comprehensive water audit so that your system can best manage its resources. We will discuss leaks, stolen water, meter accuracy, flushing, city uses, fire suppression, and distribution maintenance and how they affect your finances.

Don Vanvelthuizen  
USA BlueBook

#### CHEMICAL FEED PUMPS

1:00—2:30 & 2:45—4:15 (Continued Session)

Whether your preference is diaphragm or peristaltic, come learn about operation, maintenance and troubleshooting of these work horses of water treatment. You will leave this session able to determine which pumps will work best in your application and which pumps to avoid. Also, we will discuss calculating doses and setting the controls of the equipment and have a hands-on operation and maintenance section of popular chemical feed pumps.

Don Vanvelthuizen  
USA BlueBook

### WASTEWATER (BALLROOM CD)

#### ALTERNATE SYSTEMS

8:30—10:00 & 10:15—11:45 am (Continued)

This training will provide an in-depth look at the components, performance, O&M, costs, and advantages of Orenco Effluent Sewer (STEP/STEG) and the AdvanTex Treatment Systems, which have recently been approved by the state DWQ. Orenco's Effluent Sewer and AdvanTex treatment systems are complete wastewater solutions for any community, large or small. Orenco's Effluent Sewer is a proven, verifiable, cost-effective solution to community wastewater collection, and the AdvanTex Treatment System is a stable, reliable, low maintenance system that treats wastewater to better than secondary standards. The training will include detailed design examples.

Richard Jex | Orenco

#### COLLECTION SYSTEM O & M

1:00—2:30 & 2:45—4:15 pm  
(Continued Session)

Attend this in-depth session taught by the best in the business to gain a better understanding of basic collection systems from start to finish. We will begin by going over terminology, mapping procedures, and why maintenance is needed, and go on to cover everything from different equipment options needed to complete the desired maintenance, cleaning pump ratings and their importance, and proper nozzle selection. Time permitting, a hands-on nozzle demonstration will also be included.

Dave Denny  
Twin "D" Inc.

### OPERATOR CERTIFICATION (SUNBROOK / ENTRADA)

8:30—4:15 (Breaks at Scheduled Times)

The Water and Wastewater Operator Certification track begin on

**Monday, March 2, at 1:00 pm.**

They will be held during Tuesday's In-Depth Training sessions and continue throughout the week. Breaks, Special Sessions, Exhibit Hall time, etc. will occur as scheduled with the rest of the Conference.

Instruction Topics TBA at Conference

*The Water & Wastewater Operator Cert. tests will take place on Friday, March 6th:*

**WATER EXAM: Sunbrook ABC**  
9:00 am — 12:00 Noon

**WASTEWATER EXAM: Entrada ABC**  
9:00 am — 12:00 Noon

Wednesday  
March 4, 2009

9:00 - 10:00

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## Training Sessions

### BALLROOM CD

#### SEWER LATERAL LOCATION

Directional drilling companies have requested & the Legislature is looking at the need for sewer laterals to be located. In the 2008 legislature, a bill was proposed which would require cities/districts to locate all laterals for excavation.

The bill was defeated, but a task force has been set up to look at the issue and come up with compromise legislation. Attend this presentation and get a report on the status of that task force.

Leland Myers  
*Central Davis Sewer*

### BALLROOM AB

#### ELECTRICAL HAZARDS IN THE WORKPLACE

Electrical safety training starts with your utility's commitment to your well being. This session is designed to train your operators on the proper care, maintenance, inspection and utilization of the electrical systems in your facility.

This course is also designed to ensure that, under emergency conditions, the proper steps are taken to restore power in an efficient and safe manner.

Paul Strope  
*National Rural Water Association*

### BALLROOM F

#### RECORD KEEPING REQUIREMENTS FOR THE GROUNDWATER RULE

The Groundwater Rule will become effective in December of 2009. Will your system be ready? This session will outline the requirements and deadlines in the rule, focusing on three areas:

- Changes to your routine TCR samples
- What will be required to be exempt from the rule requirements
- The consequences of significant deficiencies found during the sanitary survey process

Janet Lee / Michael Mortenson / John Oakeson  
*Div. of Drinking Water*

### MUSEUM

#### KEEPING GOOD EMPLOYEES

In our industry we sometimes underestimate the value of good employees. Come learn a few pointers on what to be aware of and a few strategies for keeping your employees happy including, but not limited to, salaries, benefits, schedules, positive recognition etc.

Learn how to show your employees that they are appreciated, so they do not feel the need to move on to greener pastures.

Darwin Jensen  
*Centerfield Town*

### BALLROOM E

#### CUPSS: CHECK-UP PROGRAM FOR SMALL SYSTEMS

Asset management is "a process for maintaining a desired level of customer service at the best appropriate cost." Comprehensive asset management has the potential to help utilities better identify needs and plan future investments. CUPSS is a free, easy-to-use, asset management tool for small drinking water and wastewater utilities. It provides a simple, comprehensive approach to asset management based on EPA's Simple Tools for Effective Performance (STEP) Guide series. This program can help you develop a record of your assets, prepare a task schedule, and better understand your system's financial situation. It provides all the tools required to implement an asset management program and develop effective asset management plans tailored to your system without even using an internet connection!

Michael Grange  
*Div. of Drinking Water*

### OPERATOR CERT.

#### TOPICS TO BE ANNOUNCED IN SESSION

NOTE: This track is ONLY for those enrolled to take the Water or Wastewater Certification test.

THE EXAMS WILL BE HELD  
FRIDAY, MARCH 6, 2009

9:00 am—12:00 pm

Water Classes Held in: Sunbrook  
Wastewater Classes Held in: Entrada

Wednesday  
March 4, 2009

10:30 - 11:30

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## Training Sessions

### BALLROOM CD

#### LAND APPLICATION REUSE

With the ongoing changes that are occurring in water quality standards and associated discharge permit requirements, many treatment entities are looking for alternatives to the discharge of treated wastewaters to surface waters. Such alternatives may include land application and reuse of these effluents. Come hear us try to make some sense on how to understand the regulatory maze, with its recent changes, that must be negotiated to successfully pull off a project.

John Kennington / Kim Shelly  
*Div. of Water Quality*

### BALLROOM AB

#### LINE LOCATING: THE BASICS UNCOVERED

Locates are done all the time in every system. Attend this session and learn the science behind the locator—and how to use that science to your benefit.

We will discuss the locator, some tricks of the trade that may assist you in those difficult locates, and answer any questions you may have. Don't miss this one!

Don Vanveldhuizen  
*USA BlueBook*

### BALLROOM F

#### UTAH'S ECONOMY: STANDING AGAINST THE ECONOMIC DOWNTURN

We know we are in a nationwide economic downturn, but what drives the Utah economy? And why is Utah currently in an economic slowdown? How long will the slowdown last? What can Utah expect once the economic environment improves? What are the best ways to deal with such a slow economy? Attend this session to get these questions and more addressed and answered by Mark Knold, a Senior DWS Economist.

Mark Knold  
*Dept. of Workforce Services*

### MUSEUM

#### SELECTING & WORKING WITH ENGINEERS

Selecting and working with a consulting engineer may seem like a daunting task, but knowing the steps to take and some simple guidelines to follow will help make this task seem easy.

This class will discuss why a request for proposals is a good idea and how to select an engineer when those proposals are received. Tips on having a good working relationship with the selected engineer will also be discussed.

John Chartier  
*Dept. of Env. Quality*

### BALLROOM E

#### WATER DISINFECTION: CHLORINATION ALTERNATIVES

This presentation features a comparison of tablet chlorination to gas, bleach and on-site chlorine generation alternatives for water treatment. A description of the four common chlorination methods for water disinfection—including the operational, regulatory, safety, and economic considerations for each method—will be discussed. And don't miss the Excel-based economic model to be presented—it can be used by both engineering consultants and operating utilities to assess the relative economics of each technology.

Don Iwanski | *PPG Industries Inc.*

### OPERATOR CERT.

#### TOPICS TO BE ANNOUNCED IN SESSION

NOTE: This track is ONLY for those enrolled to take the Water or Wastewater Certification test.

THE EXAMS WILL BE HELD  
FRIDAY, MARCH 6, 2009

9:00 am—12:00 pm

Water Classes Held in: Sunbrook  
Wastewater Classes Held in: Entrada

Wednesday, March 4, 2009 | 1:00—2:00

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# General Session

Wednesday, March 4, 2009

1:00—2:00 pm

(Garden Room)

## Presentation of Colors

*SFC Christopher Branch,  
St. George National Guard  
2nd Battalion 222nd Field Artillery*

## The National Anthem



## Welcome Address

*Doug Evans  
Rural Water Board President*



## National Rural Water Update

*Fred Sheldon  
National Rural Water President*



## Leadership & Self Deception: Get Out of the Box!

*Dan Litchford*



## The Perfect Balance

Wednesday  
March 4, 2009

3:00 - 5:00

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Special Sessions

#### GARDEN ROOM

##### LEADERSHIP & SELF DECEPTION: GET OUT OF THE BOX!

Attend this entertaining & motivational presentation where Dr. "Dan" Litchford shows what self-deception is, how people get trapped in it, how it kills organizational performance, and most importantly, the simple way to solve it. People who are in self-deception live and work as if trapped in a box. Blind to the reality around them, they undermine performance—both their own and others. The problem is that, being in the box, they can't see that they undermine performance. Consequently, they don't change, and neither do their results.

So, let's Get Out of the Box and resolve the "Basic Eight!" Organizational Challenges: Leadership, Teamwork, Communication, Accountability, Trust, Commitment, Motivation, & Customer Service.

Dan Litchford | Weber State University

#### BALLROOM ABCD

##### AUTOMATIC CONTROL VALVES

Attend this presentation taught by one of the best in the industry on the theory and operation of pressure reducing, pressure relief, level and pump control valves. Valuable trouble - shooting and maintenance tips on these types of automatic control valves will also be provided. This session will attempt to answer the most-asked questions involving the mysteries of how these valves operate, as well as familiarize operators with the theory and maintenance of automatic control valves which will increase their expertise and skill set. Come get reacquainted with the support personnel to contact for assistance with these valves and understand the role that electronics play in automatic control valves.

Mike Landers | HyDec

#### MUSEUM

##### MANAGING THE GENERATION MIX

No matter how much things change, they still stay the same. "You can't teach an old dog new tricks" is an old cliché and doesn't apply to practices of successful managers today. In the modern business environment characterized by rapidly evolving technologies, a highly competitive market-place, expanding regulatory constraints and increasingly capable staff with diverse expectations, you cannot afford to "stay the same." Attend this innovative and informative session and learn some "new tricks" of modern management to get the most out of the "new mix" of the workplace.

Dr. Gayle Kearns | Univ. of Central Oklahoma

#### PARTNER'S PROGRAM (ENTRADA A)

##### PROJECT:

##### CERAMIC TILE PLAQUE

Express yourself with this cute and clever craft that sits on a shelf. Choose from several sayings available to match your sentiment and walk away with a new decoration for your home!

Vondakay Lofley | Elmo, Utah

#### COUNTY PLANNING (BALLROOM F)

Attend this special session for counties and people involved in subdivision planning. The State Drinking Water Board would like to meet with County Commissioners, planners and those who issue building permits to discuss planning, development and approval of new water systems. The Board, Division of Drinking Water and Division of Public Utilities would like to discuss ways they can help county officials promote the creation of properly run, sustainable water systems.

Anne Erickson ~ Chairman, Drinking Water Board

Myron Bateman ~ Vice-Chairman, Drinking Water Board

Ken Bousfield ~ Director, Div. of Drinking Water

Thursday  
March 5, 2009

9:00 - 10:00

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## Training Sessions

### BALLROOM CD

#### IS NUTRIENT REMOVAL IN YOUR FUTURE?

The Utah DWQ is conducting an evaluation of the potential economic impacts that could result from statewide nutrient discharge standards. The primary objective of this evaluation is to determine the costs and benefits resulting from implementation of these standards in Utah. The focus of the study would be to determine the "real" impacts on wastewater treatment facilities faced with possible permit requirements for nutrient control. Come learn about the methods and direction of this ongoing study, its relation to nutrient standards work by EPA other states, and our initial findings.

John Mackey | *Div. of Water Quality*

### BALLROOM AB

#### WATER CONSERVATION:

##### GETTING THE MESSAGE TO YOUR CUSTOMERS

Do you wish your customers would conserve, but are not sure how to get the word out? How do you advertise and execute a good conservation program? This session will cover how to implement an effective water conservation program through:

- Workshops
- Community Demonstration Gardens
- Free Water Checks
- Water Fairs
- Available Grants

Julie Breckenridge  
*Washington County WCD*

### BALLROOM F

#### MAXIMIZING YOUR GIS INVESTMENT

Come learn how to integrate GIS with current database systems in order to more efficiently manage your assets & infrastructures. Learn how to create and manage service requests, work orders, and parts inventories and how to efficiently manage daily activities, such as phone calls, faxes, and other office tasks. Integrate this information with GIS maps, and efficiently associate videos, pictures, and other documents with GIS assets—all while avoiding expensive licensing costs typically associated with GIS-based asset management systems.

Justin Gough | *Novotx*

### MUSEUM

#### DEALING WITH GROWTH

Santaquin City's population was 3,600 in 2000. Since then, over 2,500 acres of ground have been annexed into the city, including over 5,400 potential lots and 21,000 more people.

Come hear some of the issues facing this town and what is being done to provide all the necessary services and conveniences for its citizens—all while maintaining the rural, agrarian character of "A Community Thriving in Country Living."

Dennis Marker | David Thurgood  
*Santaquin City | JUB Engineering*

### BALLROOM E

#### LIABILITY OF NOT HAVING AN ADEQUATE CROSS-CONNECTION CONTROL PROGRAM

Cross-connection control is one of the most important barriers in protecting drinking water and public health. Contamination of a drinking water system through a cross-connection can result in illness or death. So what is your legal responsibility in providing an adequate cross-connection control program? What are the legal consequences of not having a fully developed program? What is your overall potential liability? You may think twice about overlooking cross connection requirements after this!

Craig Bott  
*Davis County*

### OPERATOR CERT.

#### TOPICS TO BE ANNOUNCED IN SESSION

NOTE: This track is ONLY for those enrolled to take the Water or Wastewater Certification test.

THE EXAMS WILL BE HELD  
FRIDAY, MARCH 6, 2009

9:00 am—12:00 pm

Water Classes Held in: Sunbrook  
Wastewater Classes Held in: Entrada

Thursday, March 5, 2009 | 10:00—12:00

# Voting Membership Meeting

page 22

The 2009 Annual Voting Membership Meeting will be on Thursday, March 5th, from 10:30 am—12:00 noon. in the Garden Room. It is **vital** that you attend this meeting if you are a representative, employee, or member of one of the Rural Water Voting Member systems. (If you are not from a voting member system, you are still welcome to attend, you just cannot vote.) Come see what is in store for the Association in 2009, vote on the newest Rural Water Board Members, and watch as a panel of judges selects Utah's best tasting water—it could be yours!

## FOR THE VOTING MEMBERS:

### VOTING MEMBERSHIP MEETING (*GARDEN ROOM*)

#### AGENDA:

- A. Call to Order
- B. Determination of a Quorum
- C. Secretary's Report
- D. Treasurer's Report
- E. Reports of Committees / Directors
- F. Election of Directors
- G. Unfinished Business
- H. New Business
  - 1. 6th Annual Water Taste Test Conducted
  - 2. Scholarship Winners

#### TOPICS TO COVER:

- The Legislative Report
  - The Utah State Legislature
  - U.S. Congress
- RWAU Activity Update
- Research & Education Committee
  - Scholarship Winners

## FOR THE LARGER, NON-VOTING SYSTEMS:

*(This session is geared toward larger systems not eligible to vote in the Membership Meeting.)*

### LARGE SYSTEM SESSION (*MUSEUM*)

#### INNOVATIONS IN LARGE DIAMETER 14"-48" PVC PIPE TECHNOLOGY AND THE NEW AWWA C900-07 SPECIFICATION

In the face of escalating material costs and shrinking infrastructure budgets, the PVC pipe industry now manufactures 60 alternative PVC pressure pipe products in the 14" through 48" diameters as well as Profile wall PVC sewer in 12"-60" diameters that provides equivalent performance for fewer dollars. In addition, as a result of an AWWA Research Foundation study, the American Water Works Association revised the AWWA C900 specification which will be discussed fully. These ideas will help you stretch infrastructure budgets and avoid costly specification overkill.

Dan Magers  
*Specified Pipe & Equipment Company*

Thursday  
March 5, 2009

1:00 - 2:00

Page 23

Training Sessions

BALLROOM CD

**PUMPS AND MECHANICAL SEAL  
DESIGN AND OPERATION**

Attend this session for an overview of the design and operation of centrifugal single and multi-stage pumps, as well as how to run and use pumps in the water and wastewater industry to get the most possible mileage out of them.

Come learn how to make your pumps last longer, the basics of proper pump maintenance, and the design and operation of mechanical seals.

**James Beck**  
*CH Spencer & Company*

BALLROOM AB

**A SURVEY TOUR OF THE DIVISION OF WATER  
RIGHTS WEB PAGE RESOURCES**

The Division of Water Rights has a web page that is an incredible resource not only for Division staff, but for water rights owners, consulting engineers, lawyers and water users everywhere. From individual and custom queries of the water right database to design drawings for Utah's dams and GIS drainage maps showing complete water right attributes, the water rights web page is second to none—but it has become difficult to navigate. A redesign is scheduled for winter of 2009, and the site will become more user friendly. Come learn about the new structure and greatest attributes of the water rights web pages and see how it can benefit you.

**Matthew Lindon** | *Assistant State Engineer*

BALLROOM F

**MAKING THE MOST OF YOUR  
TRAVEL DOLLARS**

This past year has been a rough ride trying to make budgets balance, and one of the hardest things to get a grip on is travel costs. Come to this class to learn travel tips such as:

- Is a hotel or driving back and forth my best decision?
- Per Diem—how to make it stretch.
- Should I drive, or should I fly?

Be prepared to share your own ideas and experiences with the group.

**Claudette Atwood**  
*National Rural Water*

MUSEUM

**UNDERSTANDING YOUR OPERATOR'S  
RESPONSIBILITIES**

Come find out the difference between a manager's concept of what an operator does versus an operator's concept of what he or she should do. Attend this session to learn what is required of your operator and what he or she must accomplish every day, month, year, etc. from a regulatory standpoint to daily operations and maintenance. Learn what your operator has to comply with, accomplish and complete to successfully do their job. We will also talk about the safety considerations your operator needs to take into account when completing a job.

**Ken Orton** | *Rural Water Board / Highlands Water Co.*

BALLROOM E

**WHAT DO YOU MEAN, OUR SYSTEM  
IS NOT APPROVED?!**

The Utah Div. of Drinking Water assigns a rating to each public water system to provide a concise indication of its condition and performance. This rating is assigned based on the evaluation of the operation and performance of the water system in accordance with the requirements of the Utah Drinking Water Rules. Come hear an explanation of the 3 different water system ratings: Approved, Not Approved and Corrective Action, as well as an explanation of the different types of deficiencies and their associated points—and how to get them removed!

**John Oakeson**  
*Div. of Drinking Water*

OPERATOR CERT.

**TOPICS TO BE ANNOUNCED IN SESSION**

**NOTE:** This track is **ONLY** for those enrolled to take the Water or Wastewater Certification test.

**THE EXAMS WILL BE HELD  
FRIDAY, MARCH 6, 2009**

**9:00 am—12:00 pm**

**Water Classes Held in: Sunbrook  
Wastewater Classes Held in: Entrada**



Thursday  
March 5, 2009

2:15 - 3:45

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## Training Sessions

BALLROOM CD	BALLROOM AB
<p><b>PRETREATMENT: REGULATORY &amp; PRACTICAL APPLICATION</b></p> <p>What is pretreatment, and what do the State regulations mean for you? How is pretreatment implemented by the state, and how can the DWQ help you to comply with the regulations? What changes being made in the new regulations (especially for smaller facilities) will affect you? Also hear about how a few successful systems are handling pretreatment both with and without state oversight.</p> <p>Jennifer Robinson   Dan Morrison   Daryl Humphries <i>DWQ   St. George City Water Rec. Facility   Ash Creek SSD</i></p>	<p><b>POTABLE WATER ANTIMONY-ARSENIC-IRON-RADIONUCLIDE REMOVAL SYSTEM</b></p> <p>Come hear how a small water system took a 16-year-old well that was heavily laden with contaminants and developed a new culinary water source. This was done by developing a filtration plant that removes antimony, arsenic, iron, color, turbidity, radium-226, radium 228, and gross alpha particle activity. The project was successfully completed by combining new technology and innovative design to utilize available resources.</p> <p>Garrett McMullin   Archie McDonald <i>Jones &amp; DeMille   Pure Flow Filtration</i></p>
BALLROOM F	MUSEUM
<p><b>CUSTOMER RELATIONS</b></p> <p>The cranky old lady who calls in every Thursday with a new complaint. The water thief who blames you—after all, you are charging money for something that should be free! Do these people (or others like them) sound familiar? How do you deal with your customers—those who are problematic as well as those with no complaints? Is customer relations important in an industry where people usually can't choose not to be your customers? You bet it is! Come find out why, how, and what can be gained from maintaining a positive relationship with the people on the other side of the meter (or drain!)</p> <p>Michael Harris   <i>National Rural Water</i></p>	<p><b>FINANCIAL CONSIDERATIONS FOR BUSINESS DECISIONS</b></p> <p>In the current climate of high prices and unsure markets, financial stability and accountability is as important as it ever has been. After completing this class you can:</p> <ul style="list-style-type: none"> <li>• Communicate more effectively with accounting and financial personnel</li> <li>• Read, understand and analyze accounting and financial data</li> <li>• Minimize project financial risk</li> <li>• Use accounting and financial data in project scheduling</li> </ul> <p>Claudette Atwood <i>National Rural Water</i></p>
BALLROOM E	OPERATOR CERT.
<p><b>PROTECTING UNDERGROUND UTILITY FACILITIES</b></p> <p>For over 30 years, the Blue Stakes mission has been to promote public safety and minimize damage and service interruptions to underground utilities. Blue Stakes is the only statewide association to contact to facilitate location and marking of underground utility lines prior to excavation.</p> <ul style="list-style-type: none"> <li>• Changes made in 2008 to Utah Code Title 54, Chapter 8a, Damage to Underground Utility Facilities Act</li> <li>• National "Dig Safely" Campaign</li> <li>• Best practices in excavation</li> <li>• National "Call Before You Dig" number: "811"</li> </ul> <p>Gary Hansen <i>Blue Stakes</i></p>	<p><b>TOPICS TO BE ANNOUNCED IN SESSION</b></p> <p><b>NOTE:</b> This track is <b>ONLY</b> for those enrolled to take the Water or Wastewater Certification test.</p> <p><b>THE EXAMS WILL BE HELD</b> <b>FRIDAY, MARCH 6, 2009</b> <b>9:00 am—12:00 pm</b></p> <p><b>Water Classes Held in: Sunbrook</b> <b>Wastewater Classes Held in: Entrada</b></p>

Friday  
March 6, 2009

8:30 - 9:30

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## Training Sessions

### BALLROOM CD

#### UNDERSTANDING THE E. COLI TEST

Come learn all there is to know about state regulations and the E. coli test, including:

- How the State is moving forward with monitoring E. Coli in 2009
- How the State will do the E. Coli analysis
- Understanding the E. Coli test

There will be a demonstration of the E. Coli analysis process in addition to the classroom presentation. Don't miss out!

**Sandy Wingert**  
*Div. of Water Quality*

### BALLROOM AB

#### DRINKING WATER RULES UPDATE

I think I am in compliance with all of the Drinking Water rules, but has anything changed I need to be aware of? What are the latest updates with the Division of Drinking Water Construction Standards? What are the newest requirements for:

- The Long-term 2, Stage 2 Disinfection By-Products (DBP) Rule
- Lead
- Copper

Attend this session to find out!

**Ying-Ying Macauley / Rachael Cassady**  
*Div. of Drinking Water*

### BALLROOM F

#### ETHICS & CONFLICTS OF INTEREST

Attend this discussion on ethics and conflicts of interest for officers and employees of public entities—including what is required by Utah state law. We will also cover ethics and conflicts of interest for officers and employees of nongovernmental entities, what a conflict of interest is and is not, what happens when a conflict of interest is identified, and what can happen if there is an undisclosed conflict of interest that an officer or employee takes advantage of. A general discussion on ethics and public service will also take place.

**David Church**  
*Blaisdell & Church / Utah Local Governments Trust*

### MUSEUM

#### BECOMING AN EFFECTIVE LEADER

Leadership is a balancing act. In this interactive workshop we will address communicating a compelling vision, convincing others to buy into that vision, and marshaling resources and talent to make it happen.

At the end of the workshop leaders will be more prepared to master the art of the complex leadership role and provide solid direction to all members of the team.

**Scott Vest**  
*Shift4*

### BALLROOM E

#### HYDRANTS: REPAIR OR REPLACE?

It may be easier to buy a new hydrant and not deal with the problems the old one has, but is it worth it? How much life is really left in your hydrant—even long after you thought it was beyond saving? How much could you save if you didn't have to replace it quite yet? Attend this session and learn ways you can operate, fix and maintain the old hydrants in your system. This information could add years of life to your hydrants and save your system lots of time, energy, and (most importantly) money!

**Matt & LaVar Felix**  
*Empire West*

### OPERATOR CERT.

#### OPERATOR CERTIFICATION TESTS:

##### WATER EXAM:

**Sunbrook ABC**  
*9:00 am — 12:00 Noon*

##### WASTEWATER EXAM:

**Entrada ABC**  
*9:00 am — 12:00 Noon*

Friday  
March 6, 2009

9:45 - 10:45

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Training Sessions

BALLROOM CD

**UTAH'S NEW OPERATING PERMIT PROGRAM  
(THINK YOU DON'T NEED A PERMIT? THINK AGAIN!)**

The Division of Water Quality has implemented new legislation that requires non-discharging lagoons and large underground systems to be issued an Operating Permit for the operation of these facilities. Attend this session to learn all about this new program and the requirements you need to meet to receive an operating permit. We will discuss why there is a need for Operating Permits, who is affected by this legislation, how the state is implementing this program and what the cost and reporting requirements are for those who need this permit.

Paul Krauth | *Division of Water Quality*

BALLROOM AB

**APPROVED DISINFECTION METHODS &  
FIELD APPLICATIONS**

Attend this session taught directly from the source of what is acceptable in your system when it comes to disinfection, including:

- What exactly are the AWWA disinfection methods?
- What to do after the construction is completed
- What to do when the textbook disinfection methods will not work due to field constraints

Ying-Ying Macauley / Kim Dyches  
*Div. of Drinking Water*

BALLROOM F

**MICROSOFT ACCESS**

Microsoft Access is a powerful and convenient database program that is used in businesses around the world, yet few workers understand how to use it. By participating in Microsoft Access training, you will be able to create your own databases and work with Access' functions. By mastering these functions, your productivity will soar. Access functions covered will include queries, forms, macros and reporting. Come and learn how Access can benefit you!

Faculty  
*Dixie State College*

MUSEUM

**HOW TO GIVE MEETINGS A GOOD NAME**

Are you giving meetings a bad name? Just as the Bon Jovi song "You Give Love a Bad Name" conjures up images of a bad relationship, employees/coworkers/clients may be coming to the same jaded conclusion about meetings that are boring, unproductive, or otherwise unpleasant. Join us for this lively workshop where you'll learn the essential concepts to make your meetings productive, enjoyable, collaborative events that no one dares to miss! You'll leave your audience feeling like "You Give Meetings a Good Name"!

Anita Youngkin  
*Human Capitol, Inc.*

BALLROOM E

**CONCRETE WATER STORAGE TANKS:  
WHICH STYLE SHOULD I CHOOSE?**

Concrete water storage tanks are the best, but which style would work best for me and why? Come learn the different styles of concrete tanks: poured in place, wire-wrapped, and post-tensioned. What are the differences between them, and how to choose which one is best for your water storage needs. Also, learn the advantages and disadvantages of each option.

Pat Grummer  
*EAI West*

OPERATOR CERT.

**OPERATOR  
CERTIFICATION TESTS:**

**WATER EXAM:**

Sunbrook ABC  
9:00 am — 12:00 Noon

**WASTEWATER EXAM:**

Entrada ABC  
9:00 am — 12:00 Noon

Friday  
March 6, 2009

11:00 - 12:00

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## Training Sessions

### BALLROOM CD

#### NEW WATER QUALITY STANDARDS

A new year brings new changes in State regulations and water quality standards. Attend this session taught directly from the source and learn what standards have changed, been added or deleted from the standards you must maintain to stay in compliance with current regulations. Bring your questions and come away with the most up-to-date information available. The only constant thing is change—come find out how the latest ones will affect you!

**Bill Moellmer**  
*Division of Water Quality*

### BALLROOM AB

#### DIVISION OF DRINKING WATER INITIATIVES

11:00—11:30

Come learn about the activities the Division of Drinking Water are working on to improve the hydraulic capacities of water utilities.

**Ken Bousfield** | *Div. of Drinking Water*

#### ACCESS YOUR SOURCE PROTECTION DATA ONLINE / SOURCE PROTECTION ORDINANCES

11:30—12:00

Come see a demonstration of the new DEQ website where you can log in securely and see your source protection data. We will also talk about source protection ordinances.

**Mark Jensen** | *Div. of Drinking Water*

### BALLROOM F

#### RESPONDING TO THE CALL

As an office personnel, manager or system operator, do you have the tools available that you need to document, assess and determine a plan of action for those unforeseen circumstances which occur? If not, attend this timely session taught by one of the most involved contributors to this area and learn about the tools you should have at your disposal to better handle the emergencies that may happen to not only your system, but the systems around you who may depend on you for help.

**Scott Anderson**  
*Woods Cross City*

### MUSEUM

#### BUDGETS, WATER RATES & IMPACT FEES

Budgets, rates and fees are not easy issues to tackle—especially when there are customers involved. Attend this class to:

- Evaluate the need for an adjustment
- Learn the steps necessary in making an adjustment
- Learn how to work with your customers during rate increases
- Understand how to plan for future rate adjustments
- Making your budget balance

**Curt Ludvigson**  
*Rural Water Staff*

### BALLROOM E

#### EVERYTHING A BRAND NEW WATER OPERATOR NEEDS TO KNOW

New to your water system? Or just looking for a refresher of the basics in a nutshell? Attend this session and learn what you need to keep your system running smoothly and in compliance with the State regulations.

- Sampling (How, When, & Where)
- Reports and Records
- Basic System Knowledge
- Resources Available

**Chuck Jeffs**  
*Rural Water Staff*

### OPERATOR CERT.

#### OPERATOR CERTIFICATION TESTS:

##### WATER EXAM:

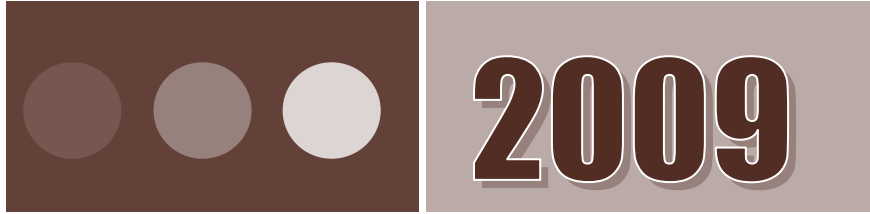
**Sunbrook ABC**

9:00 am — 12:00 Noon

##### WASTEWATER EXAM:

**Entrada ABC**

9:00 am — 12:00 Noon

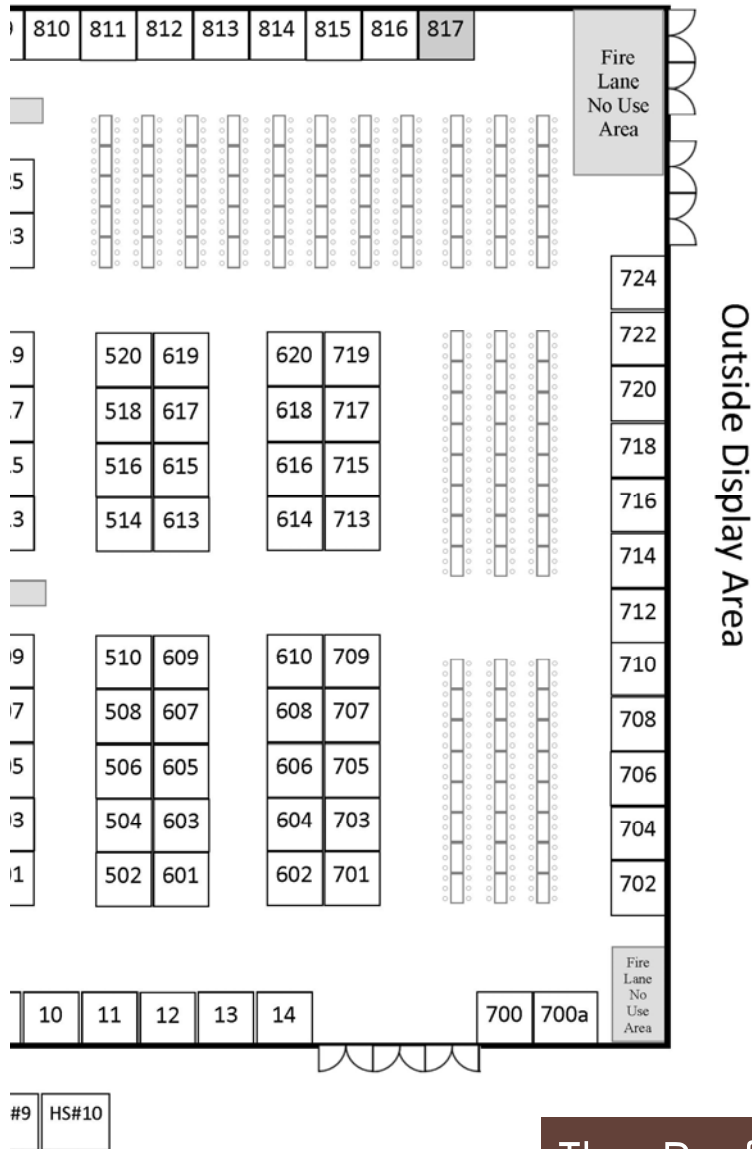


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# Exhibit Hall



The Perfect Balance



**EXHIBIT HOURS:***Wed., March 4:***7:30 – 4:00***Thurs., March 5:***7:30–1:00**

# Exhibitor

## Directory

**Page 30**

Booth	Exhibitor	Booth	Exhibitor
111	A.Y. McDonald Mfg. 801-916-8794	118	Dewco Pumps & Equipment 800-216-2941
806	ABPA ~ Utah Chapter 801-536-0089	803	Division of Drinking Water 801-536-4200
718, 720	AG Truck Equipment 801-975-0400	805	Division of Water Quality 801-538-6146
6	AIRVAC 574-527-1157	314	Dorsett's Inc. 801-430-3443
609	AmeriWest Water Services 208-861-3410	10	Draeger Safety, Inc 801-928-1777
508	Aqua Environmental Svcs. 801-209-6382	812	Dynotek 303-234-1409
814	Aquatherm 801-805-6657	103	EAI West 970-962-9400
310	Aries Industries 801-971-2063	608	EarthFax Eng. 801-561-1555
HS # 1	B & K Rep and Supply 970-568-3695	615	East Jordan Iron Works Inc. 303-286-8014
426	Backflow Supply 801-355-6736	619	EC Power Systems 801-886-1424
605, 607	Blake Sales 801-553-0923	313, 315	Empire West 801-812-2818
425	Blue Stakes 801-208-2110	810, 811	Energy Management Corp. 801-366-4100
423	Boart Longyear Drilling 801-973-6667	519	Enviroline Group 713-962-0300
505	C.H. Spencer 801-478-3446	413, 415	Epic Engineering 435-654-6600
100	Castings Inc. 970-243-2032	119, 121	Ferguson Enterprises 801-956-3500
724, 722, Outside	Cate Equipment Company 801-973-2900	410, 509	Ferguson Waterworks 435-688-2822
712	Chemtech-Ford Labs 801-262-7299	407	FilterTech Systems 970-254-2855
717	Clearwater Meter Service LLC (801) 388-5445	223	Ford Meter Box 801-458-6124
813	Continental Utility Solutions Inc. 800-240-1420	503	Franson Civil Engineers 801-756-0309
414, 513, 515	Delco Western 801-972-0900	705, 707	G & S Sales 801-550-5545



Booth	Exhibitor
520	<b>GeoAnalytica</b> 801-870-3440
323, 325, 324, 326	<b>Goble Sampson</b> 801-268-8790
523	<b>Griffin Pipe Products</b> 480-633-7787
224	<b>Hach</b> 800-227-4724 x 2047
114	<b>Harward Irr. / Sprink. Wrld.</b> 801-798-7454
102, 202, 201, 301	<b>HD Supply Waterworks</b> 801-280-8485
203	<b>HD Utility Services</b> 208-945-1070
305, 307	<b>High Country Fusion</b> 801-355-3877
320, 419	<b>Holland Equipment</b> 801-972-1601
409	<b>Horrocks Engineers</b> 801-763-5100
302, 401	<b>HyDec</b> 925-803-4646
502, 504, 601	<b>Hydro Specialties</b> 801-562-9130
525	<b>Hydrotech Inc.</b> 801-414-1357
706	<b>Industrial Safety Equipment</b> 801-288-4009
303	<b>Industrial Scientific Corp.</b> 801-201-7382
402, 501	<b>Industrial Service &amp; Supply</b> 480-496-5757 x 213
11	<b>Industrial Supply Co.</b> 801-484-8644
708	<b>Inman Interwest</b> 801-557-4959
101	<b>Insituform</b> 303-482-6178
517	<b>Intermountain Bobcat</b> 801-209-2579
420 + Outside	<b>Intermountain Sales</b> 303-762-1070
809	<b>Intermountain Traffic</b> 801-972-6515
316, 318	<b>Interstate Barricade</b> 801-546-0220



Booth	Exhibitor
116	<b>IPEX Inc.</b> 702-379-8382
105, 107	<b>ISCO</b> 801-209-9420
99	<b>Jones &amp; DeMille Eng.</b> 435-896-8266
113, 115	<b>JUB Engineers</b> 801-547-0393
205	<b>Loughlin Water Associates</b> 435-649-4005
104	<b>Master Meter</b> 817-842-8000
117	<b>McGard LLC</b> 916-383-5274
2	<b>Meter Solutions</b> 801-362-7777
800, 801	<b>Meter Works</b> 801-292-7900
1	<b>Metering Services Inc.</b> 801-492-7679
120	<b>Monsen Engineering</b> 801-531-6505
815	<b>Morrison-Maierle, Inc.</b> 801-495-0518
213, 214, 215, 216, 217, 218	<b>Mountain States Supply</b> 801-484-8885
716	<b>Mueller and Hersey Meter</b> 801-910-0806
304, 306	<b>Nickerson Co.</b> 801-973-8888
424	<b>Novotx, L.L.C.</b> 801-682-1400
219	<b>Oldcastle Enclosure Sol.</b> 281-782-8906
713	<b>Orengo Systems, Inc.</b> 541-459-4449
403	<b>Peck Traffic Safety</b> 801-965-9995
816	<b>Pelorus Methods, Inc.</b> 801-224-3318
106	<b>Pollardwater.com</b> 425-861-8755
714	<b>Professional Pipe Services</b> 949-380-4161, x1020
418	<b>Protection Engineering</b> 801-310-2788





Booth	Exhibitor
405	Remote Control Systems 801-268-1198
700	Repmasters 801-706-5744
417	Ridge Tool 440-323-5581
507	Rocky Mountain Valve 801-440-7487
408	Romac Industries 801-458-5360
817	RWAU Internet/Door Prizes 801-756-5123
124, 126, 225	Safety Supply & Sign 801-973-2266
617	Safety West 801-972-5800
604, 602, 703, 701	Scholzen Products 435-635-4441
12, 13, 14	Semi Service 801-521-0360
510	SKM Inc. 801-677-0011 x 12
416	Smith Hartvigsen 801-413-1600 x 339
209, 110	Southwest Plumbing 801-310-3983
506	Staker & Parson 801-514-9805
317, 319	Sunrise Eng. 435-743-6151
7	Syracuse Castings West 801-544-5728
HS 2	Ted D Miller & Associates 801 423-2013
226	The Northtown Company 303-517-0123
614	Tonka Equip./Water Control 763-559-2837
606	Tripac Fasteners 714-813-0751
618, 620	Twin "D" Inc. 801-771-3038
3	Underground Solutions 724-353-3000



Booth	Exhibitor
5	USABlueBook 847-377-5162
802	USDA Rural Development 801-524-4334
807	UT League of C & T 800-852-8528
808	UT Local Govts. Trust 800-748-4440
715	Utah Div. of Water Resources 801-538-7299
804	Utah State Funding 801-536-4200
123, 125	Val Kotter & Sons 435-734-9598
220	Valin Corporation 801-936-4200
603	Valve & Filter Corp. 801-891-7446
9	Veolia Water 313.822.2542
719 + Outside	Vermeer Rocky Mtn. 801-975-1216
8	VSL 303-456-9887
710	Wasatch Barricade 801-282-0000 Ext 591
514, 516, 518	Waterford Systems 801-463-9900
613	Weidner & Associates 801-565-9595
404, 406	Western Engineering 801-268-3333
610, 709	WETCO Inc. 801-565-1360
308	Wise Safety & Env. 801-978-3755
109	WL Plastics LTD 303-304-4854
204, 206, 208, 210, 309	WR White Supply 801-394-6621
4	Y-Squared Geotechnical 801-456-6505



# 2009 Dart Throw

## Prizes & Sponsors

Don't miss out on the 2009 Research and Education Fund Dart Throw! We will have some GREAT prizes up for grabs this year—stop by on the outskirts of the Garden Room at the Conference and check it out!

(All proceeds from the Dart Throw go toward the RWAU Research and Education Fund and are tax deductible.)

### Prize Preview:

- Dutch Oven w/ Accessories
- ATV Bags
- Quilt
- Shot Gun & Ammo  
(Sponsored by Sunrise Engineering)
- Gift Basket
- Golf Driver  
(Sponsored by HyDec)
- Nintendo Wii  
(Sponsored by Filter Tech.)
- Black Powder Pistol
- Table Saw
- Binoculars
- Chainsaw
- GPS Unit
- Cabelas (\$200)
- Tool Set
- Air Compressor
- Three Burner Camp Chef  
(Sponsored by Val Kotter and Sons)
- Generator
- Fishing Gear
- And much more!

There are many hotels to choose from in the St. George area. For special rates, see the starred hotels. When making your reservations directly with these hotel, mention "Rural Water." And remember, most special rates expire a month before the Conference so make your reservations early!

## HOTELS/ MOTELS

★= Special rates for Rural Water Conference.

Ambassador Inn .....	(435) 673-7900
Best Inn & Suites .....	(435) 652-3030
★Best Western Abbey Inn (Ask for Mo) .....	(435) 652-1234
★Best Western Coral Hills .....	(435) 673-4844
Best Western Travel Inn .....	(435) 673-3541
Budget Inn .....	(435) 673-6661
★Comfort Suites .....	(435) 673-7000
★Crystal Inn .....	(435) 688-7477
Days Inn .....	(435) 673-6123
★Fairfield Inn by Marriott .....	(435) 673-6066
Hampton Inn of St. George .....	(435) 652-1200
★Holiday Inn Resort Hotel .....	(800) 457-9800
Howard Johnson Inn & Suites .....	(435) 628-8000
Motel 6 .....	(435) 628-8318
★Ramada .....	(435) 628-2828
Sun Time Inn .....	(435) 673-6181
★Shuttle Lodge Inn .....	(435) 628-4251
★The Bluffs .....	(800) 832-5833
Travelodge St. George .....	(435) 673-4621
★Wingate by Wyndham .....	(435) 673-9608

# Water Taste Test

Best Water in Utah!

## Claim the Best Water in Utah (and maybe the Nation!)

**D**on't think winning the Best Water in Utah Award can't happen to you! Almost all of the winning systems for the past 5 years nearly didn't bring a sample of their water to the Conference, feeling like they would never be the ones to win. In fact, just two years ago Beaver City—who admitted they almost didn't enter—not only took home the Best Water in Utah Award, but went on to win the Best Water in the Nation! Last year's winner, North Emery SSD, said they brought their water at the last second—and they took home the title! Don't miss your chance!

The Rural Water Association of Utah is looking for the best tasting water in the State. The winner not only claims the Best Water in Utah award for 2008, but will go on to compete for a nationwide title in the NRWA National Taste Test in Washington D.C. It all culminates in St. George on Thursday, Feb. 28th, at 10:30 am during the Annual Membership Meeting. Don't miss your chance to enter! *(See contest details below.)*

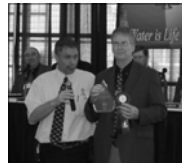
## Taste Test Rules:

- Bring one quart of cooled water in a glass canning jar to the Conference registration desk by 12:00 p.m., Wed., March 4
- Each applicant is responsible for keeping their water cooled until the Wednesday deposit
- Samples must be in a glass canning jar
- Systems of all sizes eligible to enter

Judging Criteria: Taste | Smell | Clarity

### NRWA Rural Water Rally:

Washington, D.C.  
April 19–21, 2009



2008 Winner:  
Oakley, Utah

Water:  
The Perfect  
Balance



AGENDA ITEM 14

UTAH WATER USERS ASSOCIATION'S 2009  
ANNUAL CONFERENCE

**2009 UTAH WATER USERS  
WORKSHOP  
MARCH 9 – 11, 2009  
ST. GEORGE, UTAH**

The Annual 2009 Utah Water Users Workshop will be held March 9 – 11, 2009 at the Dixie Convention Center in St. George, Utah.

Registration deadline is February 27, 2009.

Attached is a copy of a flyer on the conference. Also, attached is a motel listing for St. George City, Utah.

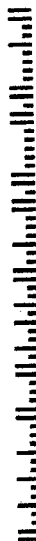
Please let Linda know as soon as you can if you would like to be registered for the conference and if you need help with motel reservations.

Submit your motel bill when you return home from the conference. Let Linda know what time and day you left and what time and day you returned home. You will receive travel expenses and registration costs for the conference.

Kate Johnson is on the Utah Water Users Workshop Committee.

If you have any questions, please call.

Non-Profit  
Org.  
U.S. Postage  
Paid  
Utah State  
University



1041

Linda Matulich

UT DEQ/DWQ

PO Box 144830

Salt Lake City UT 84114-4830

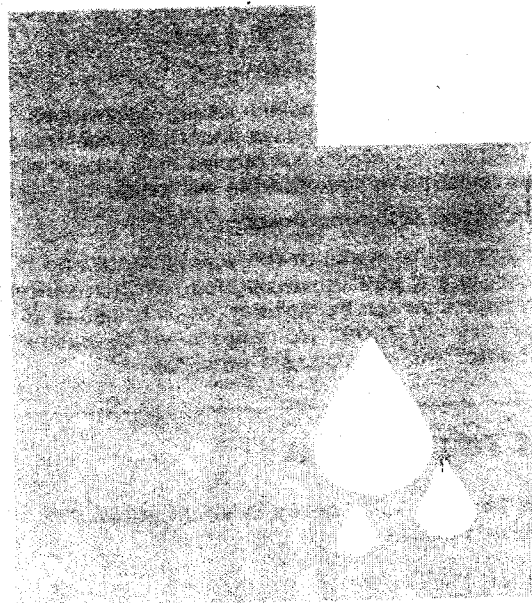


4149 Old Main Hill  
Logan, UT 84322-4149

# 2009 Utah Water Users Workshop



March 9-11, 2009  
The Dixie Center  
St. George, UT



Utah State University  
COOPERATIVE EXTENSION

4149 Old Main Hill  
Logan, UT 84322-4149  
(435) 797-2802

<http://extension.usu.edu/uwuw>

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## 2009 Utah Water Users Workshop

### March 9-11, 2009

### Dixie Center—St. George, UT

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#### GENERAL SESSIONS:

- Drought, Climate Change & Water Resources
- Colorado River Issues

#### BREAKOUT SESSIONS:

- House Bill 51 Forfeiture
- Legislative Update—Executive Water Task Force?
- Water Rights—Current Issues
- Utah Water Outlook
- Endangered Species Recovery
- Water Banking/Marketing
- Colorado River Basin - Salinity Control
- Update on Huntington Salinity Project
- Water Quality Standards-State Rule Revisions
- TMDL Development Studies
- Update on Mercury Issues in Utah
- Establishing Nutrient Criteria/Standards and Impact to Dischargers
- Pharmaceuticals in Utah Drinking Water
- Watershed Issues
- Emergency Watershed Program Flood Repair Projects - NRCS
- Managing Ground-Water Reservoirs Using Numerical Models and Optimization Tools
- Artificial Recharge to Groundwater Basins: Concepts and Considerations
- River Hydrodynamic Models: Use in Planning and Hazard Definition

#### More BREAKOUT SESSIONS:

- Lake Powell Pipeline Update
- Impacts to Bear River System
- Utah Water System Emergency Response Network
- Utah Streams Access: Recreational vs. Private Property Rights
- Canal Seepage Problems: Cache Valley Solutions
- Where's the Information?—Navigating the Web-sites:
  - \* DDW-DEQ/GIS Information and Web Site, including AGRC
  - \* Water Rights Web Site
  - \* Where is the Data? Accessing the USGS Water Databases
- "Take or Pay" Contracts
- Water Conservation Overview and Plans
- Reservoir Sedimentation Study
- Residential Water Use Study
- Dam Safety: Federal and State Updates
- Water for America—New Initiative
- Conversion of Ag to Municipal and Industrial Water
- Invasive Species: Tamarisk
- 2008 Farm Bill Update
- Wild and Scenic Rivers: Troubled Western Waters
- Conservation Through Calibration and Communication
- Accuracy of Flow Measurement in Utah



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## 2009 Utah Water Users Workshop

### March 9-11, 2009

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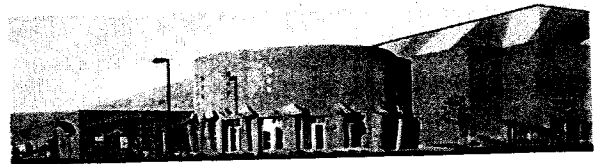
#### Field Trip: March 11, 2009

*Following the conference,* the Utah Water Research Lab at Utah State University, in cooperation with Utah Division of Water Rights, Sevier River Water Users' Association, and the Provo office of the U.S. Bureau of Reclamation, have organized a field trip to the DMAD dam to demonstrate the automation of the Sevier River system.

The two-hour field trip in Delta will take participants to see some of the canal automation and flow measurement systems that are in wide use in the Sevier River Basin. This brief tour will focus on measurement and reporting of canal flows and how these are used in automation of irrigation diversion.

Plan on attending this educational forum!

**Hope to see you in  
St. George!**



---

#### Workshop Organizers:

Utah Water Users Association and Utah State University Extension in cooperation with

- Utah Farm Bureau Federation
- State of Utah: Department of Environmental Quality; Department of Natural Resources, Divisions of Water Rights and Water Resources; and the Utah Department of Agriculture and Food
- U.S. Government: Bureau of Reclamation; Geological Survey; and Natural Resources



The Utah State University Cooperative Extension Service, an equal opportunity employer, provides programs and services to all persons regardless of race, sex, age, religion, color, national origin or handicap.

*Robert W. Hill*

Extension Irrigation Specialist

## To Register:

Registrations by mail must be received no later than **February 27, 2009**. Later registrations may be made on site at the workshop.

**Sorry--No purchase orders or credit card purchases.**

### MAKE CHECKS PAYABLE TO:

**Utah Water Users Workshop**

### MAIL CHECKS & COMPLETED REGISTRATION FORMS TO:

Shelley Comendant  
Utah State University  
4105 Old Main Hill  
Logan, UT 84322-4105

PHONE: (435) 797-2802

### CONFIRMATIONS:

Confirmations will be mailed out for registrations received at least seven days prior to the conference. Thereafter, registrants will receive their receipt with their registration packet at the workshop.

### CANCELLATION & REFUND POLICY:

Refunds will be made to those registrants who must cancel, less a **\$10** processing fee. Written cancellation requests must be postmarked on or before **February 27, 2009**. **No refunds** will be made after that date. Substitutions are welcome.

## Golf Tournament

### Green Springs Golf Course in Washington City-- Scramble Format

Monday, March 9, 2009 @ 9:00 a.m. \$60 fee includes green fee, cart rental, lunch and prizes. Send \$60, email address, and average 18-hole score or handicap for each participant to Paul Gillette.

**For the Golf Tournament only, mail checks made payable to:**

Paul Gillette  
716 East 1875 South  
Bountiful, UT 84010

For more information, 801-295-6771 or 801-661-5140.

Name \_\_\_\_\_

(as preferred on badge)

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, ST, Zip: \_\_\_\_\_

Day Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

## REGISTRATION OPTIONS

### EARLY REGISTRATION (Postmarked by February 13)

Two Day Registration with banquet.....\$80

Two Day Registration without banquet.....\$65

One Day Registration without banquet.....\$50

Please indicate which day you will attend:

Tuesday

Wednesday

Guest Program.....\$15

Add'L Early Reg. Banquet Tickets.....\$25 each

Please indicate the number you wish to purchase: \_\_\_\_\_

**TOTAL AMOUNT ENCLOSED: \$** \_\_\_\_\_

### REGULAR REGISTRATION (After February 13)

Two Day Registration with banquet.....\$100

Two Day Registration without banquet.....\$80

One Day Registration without banquet.....\$50

Please indicate which day you will attend:

Tuesday

Wednesday

Guest Program.....\$15

Additional Banquet Tickets.....\$35 each

Please indicate the number you wish to purchase: \_\_\_\_\_

**TOTAL AMOUNT ENCLOSED: \$** \_\_\_\_\_

**MOTELS IN THE ST. GEORGE, UTAH  
AREA TO CHOOSE FROM FOR THE  
2009 UTAH WATER USERS WORKSHOP**

Ambassador Inn	(435) 673-7900
Best Inn & Suites	(435) 652-3030
Best Western Abbey Inn (Ask for Moe)	(435) 652-1234
Best Western Coral Hills	(435) 673-4844
Best Western Travel Inn	(435) 673-3541
Budget Inn	(435) 673-6661
Comfort Suites	(435) 673-7000
Crystal Inn	(435) 688-7477
Days Inn	(435) 673-6123
Fairfield Inn by Marriott	(435) 673-6066
Hampton Inn of St. George	(435) 652-1200
Holiday Inn Resort Hotel	(800) 457-9800
Howard Johnson Inn & Suites	(435) 628-8000
Motel 6	(435) 628-8318
Ramada	(435) 628-2828
Sun Time Inn	(435) 673-6181
Shuttle Lodge Inn	(435) 628-4251
The Bluffs	(800) 832-5833
Travelodge St. George	(435) 673-4621

## AGENDA ITEM 16

### LETTERS



## State of Utah

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

## Department of Environmental Quality

Richard W. Sprott  
*Executive Director*

DIVISION OF DRINKING WATER  
Kenneth H. Bousfield, P.E.  
*Director*

**Drinking Water Board**  
Anne Erickson, Ed.D., *Chair*  
Myron Bateman, *Vice-Chair*  
Ken Bassett  
Daniel Fleming  
Jay Franson, P.E.  
Helen Graber, Ph.D.  
Paul Hansen, P.E.  
Petra Rust  
Richard W. Sprott  
David K. Stevens, Ph.D.  
Ron Thompson  
Kenneth H. Bousfield, P.E.  
*Executive Secretary*

December 1, 2008

Duane Fluckinger  
Bridge Hollow Water Association  
600 Bridge Hollow Drive  
Wanship, Utah 84017

Dear Mr. Fluckinger:

Subject: Notice of Violation and Administrative Order, Bridge Hollow Water Association,  
UTAH System #22117

The Division of Drinking Water records indicate that you are the responsible party for the Bridge Hollow Water Association Drinking Water System.

The Bridge Hollow Water Association Drinking Water System is a public water system, and as such is subject to the Administrative Rules for Public Drinking Water Systems (copy available upon request). Under Utah Administrative Code R309-100-4 a water system is considered to be a public water system, when 25 or more people are served water for at least 60 days, or 15 or more water system connections are served.

In the last year of operation, 185 points have been assessed against the Bridge Hollow Water Association Drinking Water System. Under our Improvement Priority System ("IPS") Community water systems exceeding 150 points are rated "Not Approved" and placed on a priority list for enforcement actions. The Bridge Hollow Water Association Drinking Water System is currently rated "Not Approved" by our office. Further, because of these violations, the Drinking Water Board is issuing the attached Notice of Violations and Order to ensure compliance.

Please give this Order your immediate attention. A written response is required within 30 days after receipt of this NOTICE. This Order is fully enforceable unless appealed in writing within 30 days, as described in the "Notice" section of the Notice of Violation and Order ("NOV"). Any response or written answer to this NOV should be addressed to Kenneth H. Bousfield, P.E., Executive Secretary, Drinking Water Board, P.O. Box 144830, Salt Lake City, Utah 84114-4830.

### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

150 North 1950 West • Salt Lake City, UT  
Mailing Address: P.O. Box 144830 • Salt Lake City, UT 84114-4830  
Telephone (801) 536-4200 • Fax (801) 536-4211 • T.D.D. (801) 536-4414

101101

[www.deq.utah.gov](http://www.deq.utah.gov)  
Printed on 100% recycled paper

December 1, 2008

If you have any questions, or wish to review the water system on-site, please call Janet Lee at (801) 536-0088. A phone call to the Division of Drinking Water or an on-site visit does not alter the requirement to timely respond in writing if you wish to contest this Notice and Order.

Sincerely,

DRINKING WATER BOARD



Kenneth H. Bousfield, P.E.  
Executive Secretary

JL

Attachments

cc: Richard W. Sprott, Executive Director, DEQ  
Kenneth H. Bousfield, P.E., Director, DDW  
Fred Nelson, Assistant Attorney General  
Steve Jenkins, Env. Director, Summit County Public Health Dept., P.O. Box 128, Coalville, UT 84017  
Kathelene Brainich, EPA Region VIII, Drinking Water Offices, 1595 Wynkoop St., Denver, CO 80202-1129

F:\wp\lmatulich\DRINKING WATER\letters\Rules\JanetLee\2008\B Hollow NOV.doc

## DRINKING WATER BOARD

<b>In the Matter of the Bridge Hollow Water Association Drinking Water System #22117</b>	<b>Notice of Violation and Order Case No. 22117-08-01</b>
--	---

The Drinking Water Board ("Board") issues this Notice of Violation and Order under the Utah Safe Drinking Water Act ("Act"), sections 19-4-104, -105, -106, -107, and -109, and the Utah Administrative Code ("UAC") and in accordance with the Utah Administrative Procedures Act, sections 63G-4-101 to -601.

### FACTS AND VIOLATIONS

1. The **Bridge Hollow Water Association** Drinking Water System is a public water system in Summit County that provides drinking water to approximately 60 people through 20 active connections. Duane Fluckinger is the Manager of the Bridge Hollow Water Association Drinking Water System.
2. A copy of **Bridge Hollow Water Association** Drinking Water System's Improvement Priority System ("IPS") report (copy enclosed) documents the **185** points that have been assessed against the water system.
3. Based on the Division of Drinking Water's records for the past 12 months, the **Bridge Hollow Water Association** Drinking Water System has bacteriologic violations in violation of UAC R309-200-5(6)(a) as follows:

Non-acute MCL bacteriological quality violation in September 2008.
4. Based on the Division of Drinking Water records, **Bridge Hollow Water Association** has chemical monitoring violations for source #2, Bridge Hollow Well, as follows:

Failure to monitor for Nitrate in violation of UAC R309-205-5.
5. **Bridge Hollow Water Association** has failed to provide a written Bacteriologic Sampling Site Plan in violation of UAC R309-210-5(1)(d).
6. **Bridge Hollow Water Association** has failed to provide a written Lead and Copper sampling site plan in violation of UAC R309-210-6.
7. **Bridge Hollow Water Association** has failed to provide a Source Protection Plan for source #2, Bridge Hollow Well in violation of UAC R309-600-7.
  - A. **Bridge Hollow Water Association** does not have a current inventory of contamination sources.
  - B. **Bridge Hollow Water Association** does not have a land management strategy.

8. **Bridge Hollow Water Association** has failed to document a Cross Connection Control Program in violation of UAC R309-105-12(2) as follows:

- A. **Bridge Hollow Water Association** has not provided a legally adopted and functional local authority cross connection control program statement;
- B. **Bridge Hollow Water Association** has not provided documentation of public awareness education or awareness cross connection control training;
- C. **Bridge Hollow Water Association** does not have an operator with adequate training in the area of cross connection control or backflow prevention;
- D. **Bridge Hollow Water Association** has not provided written records of cross connection control activities; and
- E. **Bridge Hollow Water Association** has not provided test history and documentation of on-going enforcement for cross connection control.

9. **Bridge Hollow Water Association** does not have an operator certified to operate the system at the required level in violation of UAC R309-300-5.



## ORDER

As a part of your responsibilities under Utah Administrative Code, R309-100-9, the management of the **Bridge Hollow Water Association** is hereby ordered to provide the Division of Drinking Water, written evidence of completion of the following items according to the deadlines given below:

1. **Bridge Hollow Water Association** Drinking Water System must commence immediately with compliance with all monitoring requirements of UAC R309-205-5 involving Chemical Monitoring including: Nitrate.
2. **Bridge Hollow Water Association** Drinking Water System must provide a written Bacteriologic sampling site plan as required by UAC R309-210-5(1)(d) within 30 days of the date of receipt of this Order.
3. **Bridge Hollow Water Association** Drinking Water System must provide a written Lead and Copper sampling site plan as required by of UAC R309-210-6 within 30 days of the date of receipt of this Order.
4. **Bridge Hollow Water Association** Drinking Water System must provide a Source Protection Plan for source #2, Bridge Hollow Well, as required by UAC R309-600-7 within 90 days of the date of receipt of this Order including:
  - A. Documentation of a current inventory of contamination sources;
  - B. Documentation of a land management strategy; and
  - C. The required plans and specifications for plan approval from the Division of Drinking Water for source #2, Bridge Hollow Well.
5. **Bridge Hollow Water Association** Drinking Water System must submit documentation of a Cross Connection Control Program as required by of UAC R309-105-12(2) within 60 days of the date of receipt of this Order including:
  - A. A legally adopted and functional local authority cross connection control program statement;
  - B. Documentation of public awareness education or awareness cross connection control training;
  - C. Documentation of an operator with adequate training in the area of cross connection control or backflow prevention;
  - D. Written records of cross connection control activities; and
  - E. Documentation of test history and on-going enforcement for cross connection control.
6. **Bridge Hollow Water Association** Drinking Water System must submit documentation of an operator certified to operate the system at the required level as required by UAC R309-300-5 within 60 days of the date of receipt of this Order.).

## **NOTICE**

Compliance with the provisions of this NOVO is mandatory. UCA § 19-4-109 provides that a violation of the ACT or a related order may be subject to a civil penalty of up to \$1,000 per day of violation. Under certain circumstances of willfulness or gross negligence, violators may be fined up to \$5,000 per day of violation.

## CONTESTING THIS NOVO

This NOV/CO is effective immediately and shall become final unless contested in writing within thirty (30) days after the date this NOV/CO was signed. See Utah Administrative Code R309-115-3. Any further administrative proceedings in this case shall be conducted formally under Utah Code Annotated § 63G-4-101 to -601. **If you do not request a hearing in writing and participate in the hearing, the Order will become final and you will not be allowed to contest this Notice of Violation in court.** See Utah Code Annotated § 63G-4-201 (2)(a)(vi). Utah Code Annotated § 19-4-109 states that anyone who violates the Utah Safe Drinking Water Act, permit, rule, or order is subject to a civil penalty of up to \$1,000 per day of violation. Willful violators may be fined up to \$5,000 per day.

To contest this NOV/CO, you must respond in writing and must comply with the requirements of the Administrative Rules of the Drinking Water Board, found at Utah Administrative Code R309-115 and with the requirements of the Utah Administrative Procedures Act, Utah Code Annotated § 63G-4-201 (3)(a) - (b). Those provisions of the Utah Administrative Procedures Act require, among other things, that you state your factual and legal reasons for disagreeing with the Notice of Violation or Compliance Order, and that you state the action that you would like the agency to take (e.g., withdrawing the NOV/CO). A copy of Utah Code Annotated § 63G-4-201 (3)(a) - (b) is provided on the next page. A response contesting this NOV/CO must be received by the Executive Secretary within 30 days of the date this NOV/CO was signed. See Utah Code Annotated § 63G-4-201 (2)(a)(vi) and § 63G-4-301.

### MAILING ADDRESS:

Kenneth H. Bousfield, P.E.  
Executive Secretary  
Drinking Water Board  
c/o Division of Drinking Water  
P.O. Box 144830  
Salt Lake City, Utah 84114-4830

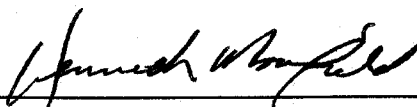
### HAND OR OVERNIGHT DELIVERY:

Kenneth H. Bousfield, P.E.  
Executive Secretary  
Drinking Water Board  
c/o Division of Drinking Water  
150 North 1950 West  
Salt Lake City, Utah 84116

You will not be allowed to contest this NOVO in court or in any other forum if you do not first contest the NOVO as described above.

Issued this 1st day of December, 2008.

DRINKING WATER BOARD

By:   
Kenneth H. Bousfield, P.E., Executive Secretary

**Drinking Water Board Utah Code Annotated § 63G-4-201 (3)(a)-(b):** (a) Where the law is applicable to the agency permits persons other than the agency to initiate adjudicative proceedings, that person's request for agency action shall be in writing and signed by the person invoking the jurisdiction of the agency, or by that person's representative, and shall include:

- (I) the names and addresses of all persons to whom a copy of the request for agency action is being sent; (ii) the agency's file number or other reference number, if known; (iii) the date that the request for agency action was mailed; (iv) a statement of the legal authority and jurisdiction under which agency action is requested; (v) a statement of the relief or action sought from the agency; and (vi) a statement of the facts and reasons forming the basis for relief or agency action.
- (b) The person requesting agency action shall file the request with the agency and shall mail a copy to each person known to have a direct interest in the requested agency action.

## CERTIFICATE OF MAILING

I certify that on December 1, 2008, I caused to be mailed a true and correct copy of the Foregoing NOTICE OF VIOLATION AND ORDER to:

**BY CERTIFIED MAIL TO:**

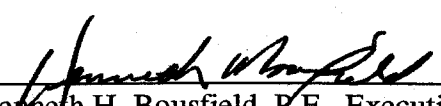
Duane Fluckinger  
Bridge Hollow Water Association  
600 Bridge Hollow Drive  
Wanship, Utah 84017

**BY REGULAR MAIL TO:**

Kathelene Brainich  
U.S. EPA Region VIII  
1595 Wynkoop Street  
Denver, Colorado 80202-2466

M. M. Hubbell  
Assistant Attorney General  
160 East 300 South, Fifth Floor  
P.O. Box 140873  
Salt Lake City, Utah 84114-0873

Steve Jenkins, EHS, MPH Health Officer  
Summit County Public Health Department  
85 North 50 East  
PO Box 128  
Coalville, Utah 84017

  
\_\_\_\_\_  
Kenneth H. Bousfield, F.E., Executive Secretary

## Attachment A

Explanation and Required Elements for Public Notice To Be Sent to Each Customer of Your Water System. The following violations have occurred for the **Bridge Hollow Water Association, Drinking Water System**:

MCL bacteriological quality violation in October 2007

MCL bacteriological quality violation in September 2008

**Bridge Hollow Water Association** must monitor for bacteriologic quality of one (1) sample per month. When a violation occurs, we must notify our customers in writing. A major monitoring violation occurs when no samples were collected during the month. If a sample is unsatisfactory, at least four "repeat" samples must be collected DURING THE SAME MONTH. In addition, the following month, at least five additional samples must be collected. A major repeat monitoring violation occurs when no "repeat" samples are collected for any unsatisfactory sample. A non-acute MCL Quality violation occurs when a system collecting less than 40 total coliform samples per month has one or more total coliform-positive sample during the month.

Bacteriologic sampling is performed because the U.S. Environmental Protection Agency (EPA) has determined that the presence of total coliforms (the organism tested for) is a possible health concern. Total Coliforms are common in the environment and are generally not harmful themselves. The presence of these bacteria in drinking water, however, generally is a result of a problem with water treatment or the pipes which distribute the water, and indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include: diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. EPA has set an enforceable drinking water standard for total coliforms to reduce the risk of these adverse health effects. Under this standard, no more than one total coliform-positive sample per month may be present. Drinking water which meets this standard is usually not associated with a health risk from disease-causing bacteria and should be considered safe.

Finally, **Bridge Hollow Water Association** Drinking Water System management should include a brief statement describing why the violations occurred (perhaps the sampler was not aware of the sampling requirements) and what you are doing to prevent the violations discussed above from re-occurring (perhaps by saying he/she is receiving additional sampling training, etc.).

## **Attachment B**

**Public Water System Improvement Priority System ("IPS") report for Bridge Hollow Water Association Water System.**

# Utah Department of Environmental Quality Division of Drinking Water

## Public Water System IPS Report

UTAH22117 BRIDGE HOLLOW WATER ASSOCIATION

Run Date: 12/1/2008

**PWS ID:** UTAH22117      **Name:** BRIDGE HOLLOW WATER ASSOCIATION

**Legal Contact:** BRIDGE HOLLOW WATER ASSOC

**Rating:** Not Approved

DUANE FLUCKINGER

**Rating Date:** 1/23/08

**Address:** 600 BRIDGE HOLLOW DR

WANSHIP, UT 84017

**Phone Number:** 435-336-0712

**City Served (Area):**

**County:** SUMMIT COUNTY

**System Type:** Community

**Last Inv Update:** 2/6/08

**Avg Daily Prod:**

**Gal/Day    Gal/Min**

**Activity Status Cd:** Active

**Last Snty Srv Dt:** 6/18/2007

**Total Dsgn Cap:**

0      0

**Population:** 60

**Oper Period:** 1/1 to 12/31

**Total Emerg Cap:**

0      0

**Total IPS Points:** 185

**Rating Date:** 1/23/2008

**Rating:** Not Approved

**Violation Pts\*:** 60

**Admin & Physical Facilities:** 95

**Operator Certification Pts:** 30

\* Total violation points may not agree with the detail section. The detail sections show all 'open' violations; the violation points total adjusts for duplicate violations

### Physical Facility, Administrative, & Source Protection Deficiencies from Site Visits

**Code      Description**

**C001 OPERATOR NOT CERT TO LEVEL REQUIRED FOR SYSTEM**

<b>Facility</b>	<b>Date Determined</b>	<b>PWS Notified</b>		<b>Max Pts</b>	<b>0</b>
	6/18/2007				

**M000 OLD FINANCIAL MGMT PLAN IN PLACE**

<b>Facility</b>	<b>Date Determined</b>	<b>PWS Notified</b>		<b>Max Pts</b>	<b>0</b>
	7/28/2004	7/28/2004			

SYSTEM HAS A WRITTEN FINANCIAL MANAGEMENT PLAN

**M001 CURRENT EMERGENCY RESPONSE PROGRAM**

<b>Facility</b>	<b>Date Determined</b>	<b>PWS Notified</b>		<b>Max Pts</b>	<b>10</b>
	7/28/2004	7/28/2004			

SYSTEM HAS A CURRENT EMERGENCY RESPONSE PLAN

**M003 CCC LACKS LOCAL AUTHORITY**

<b>Facility</b>	<b>Date Determined</b>	<b>PWS Notified</b>		<b>Max Pts</b>	<b>10</b>
	6/18/2007				



# Utah Department of Environmental Quality Division of Drinking Water

## Public Water System IPS Report

UTAH22117 BRIDGE HOLLOW WATER ASSOCIATION

Run Date: 12/1/2008

### Physical Facility, Administrative, & Source Protection Deficiencies from Site Visits

Code	Description	Date Determined	PWS Notified	Max Pts
M004	CCC-NO ANNUAL PUBLIC EDUCATION OR AWARENESS			10

6/18/2007

M005	CCC-LACKS OPERATOR TRAINING			10
Facility	Date Determined	PWS Notified	Max Pts	

7/28/2004 7/28/2004

SYSTEM LACKS AN OPERATOR WITH TRAINING FOR CROSS CONNECTION CONTROL

M006	CCC-LACKS WRITTEN RECORDS			10
Facility	Date Determined	PWS Notified	Max Pts	

7/28/2004 7/28/2004

SYSTEM LACKS WRITTEN RECORDS OF CROSS CONNECTION CONTROL ACTIVITIES

M007	CCC-LACKS ON-GOING ENFORCEMENT PLAN			10
Facility	Date Determined	PWS Notified	Max Pts	

7/28/2004 7/28/2004

SYSTEM LACKS AN ON-GOING ENFORCEMENT ACTIVITY PLAN FOR CROSS CONNECTION CONTROL PROGRAM

R000	LACKS LEAD/COPPER SAMPLE SITE PLAN			0
Facility	Date Determined	PWS Notified	Max Pts	

7/28/2004 7/28/2004

NO LEAD/COPPER SAMPLING SITE PLAN

R001	INADEQUATE BACTERIOLOGICAL SAMPLING SITE PLAN			5
Facility	Date Determined	PWS Notified	Max Pts	

7/28/2004 7/28/2004

NO BACTERIOLOGICAL SAMPLING SITE PLAN

SP02	NO CURRENT COPY OF SOURCE PROTECTION PLAN ON SITE			30
Facility	Date Determined	PWS Notified	Max Pts	

6/18/2007

THEY NEED TO UPGRADE PER TO FULL SOURCE PROTECTION PLAN

SP04	NO CURRENT INVENTORY OF CONTAMINATION SOURCES			10
Facility	Date Determined	PWS Notified	Max Pts	

6/18/2007

THEY NEED TO UPGRADE PER TO FULL SOURCE PROTECTION PLAN

# Utah Department of Environmental Quality Division of Drinking Water

## Public Water System IPS Report

UTAH22117 BRIDGE HOLLOW WATER ASSOCIATION

Run Date: 12/1/2008

### Physical Facility, Administrative, & Source Protection Deficiencies from Site Visits

Code	Description	Date Determined	PWS Notified	Max Pts
SP05	NO DOCUMENTED LAND MANAGEMENT STRATEGIES ON FILE			10

6/18/2007  
THEY NEED TO UPGRADE PER TO FULL SOURCE PROTECTION PLAN

Total Deficiency Pts 95

### TCR Rule Violations

Date Range Starts: 12/1/2007

Determin Date	Compliance Period	Code	Violation Type	IPS Points Assessed
10/27/2008	9/1/08 -9/30/08	22	MCL (TCR), MONTHLY	40
Total TCR Violation Pts:				40

### Chemical Monitoring and Quality Violations

Violation No.	Period	Code	Violation Type Analyte/ Group	IPS Points
2008-41042	01/01/07-12/31/07	03	MONITORING, ROUTINE MAJOR	20
41042	2/4/2008		Others, not grouped NITRATE (AS N)	
Total Chemical Violation Points				20

### Operator Certification Points

	Distribution	Treatment	
Level Required	SS		
Highest Certificate on Record			
Points	30	0	Total Points 30



State of Utah

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

Department of  
Environmental Quality

William J. Sinclair  
*Acting Executive Director*

DIVISION OF DRINKING WATER  
Kenneth H. Bousfield, P.E.  
*Director*

**Drinking Water Board**  
Anne Erickson, Ed.D., *Chair*  
Myron Bateman, *Vice-Chair*  
Ken Bassett  
Daniel Fleming  
Jay Franson, P.E.  
Helen Graber, Ph.D.  
Paul Hansen, P.E.  
Petra Rust  
Richard W. Sprott  
David K. Stevens, Ph.D.  
Ron Thompson  
Kenneth H. Bousfield, P.E.  
*Executive Secretary*

December 18, 2008

Greg White  
Peoa Pipeline Drinking Water System  
5626 North Highway 189  
Peoa, Utah 84061

Dear Mr. White:

Subject: Notice of Violation and Administrative Order, Peoa Pipeline  
Drinking Water System, System #22013

Division of Drinking Water records indicates that you are the responsible party for the Peoa Pipeline Drinking Water System.

Peoa Pipeline drinking water system is a public water system and as such is subject to the Utah Administrative Rules for Public Drinking Water Systems (copy available upon request). Under Utah Administrative Code R309-100-4 a water system is considered to be a public water system, when 25 or more people are served water for at least 60 days, or 15 or more water system connections are served.

In the last year of operation, 230 points have been assessed against Peoa Pipeline drinking water system. Under our Improvement Priority System ("IPS") community water systems exceeding 150 points are rated "Not Approved" and placed on a priority list for enforcement actions. The Peoa Pipeline drinking water system is currently rated "Not Approved" by our office. Further, because of these violations, the Drinking Water Board is issuing the attached Notice of Violations and Order to ensure compliance.

Please give this Order your immediate attention. A written response is required within 30 days after receipt of this NOTICE. This Order is fully enforceable unless appealed in writing within 30 days, as described in the "Notice" section of the Notice of Violation and Order ("NOV"). Any response or written answer to this NOV should be addressed to Ken Bousfield, P.E., Executive Secretary, Drinking Water Board, 150 North 1950 West, P. O. Box 144830, Salt Lake City, Utah 84114-4830.

**CERTIFIED MAIL-RETURN RECEIPT REQUESTED**

150 North 1950 West • Salt Lake City, UT  
Mailing Address: P.O. Box 144830 • Salt Lake City, UT 84114-4830  
Telephone (801) 536-4200 • Fax (801) 536-4211 • T.D.D. (801) 536-4414

[www.deq.utah.gov](http://www.deq.utah.gov)

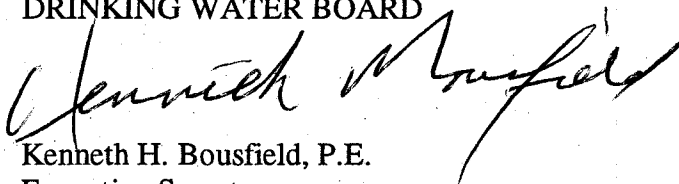
Printed on 100% recycled paper

December 18, 2008

If you have any questions, or wish to review the water system on-site please call Janet Lee, of this office, at (801) 536-0088. A phone call to the Division of Drinking Water or an on-site visit does not alter the requirement to timely respond in writing if you wish to contest this Notice and Order.

Sincerely,

DRINKING WATER BOARD



Kenneth H. Bousfield, P.E.  
Executive Secretary

jl

Attachments

cc: William Sinclair, Acting Executive Director, DEQ  
Melissa Hubbell, Assistant Attorney General, P.O. Box 14873, SLC, UT 84114-4873  
Steve Jenkins, Env. Director, Summit County Public Health Department, P.O. Box 128, Coalville, UT 84017  
Kathelene Brainich, EPA Region VIII, 1595 Wynkoop Drive, Denver, CO 80202-1129  
Kenneth H. Bousfield, P.E., Director, Division of Drinking Water

U:\dr\_water\COMPLI\<<documentumaddress>>

## ORDER

As a part of your responsibilities under Utah Administrative Code, R309-100-9, the management of the **Peoa Pipeline** is hereby ordered to provide the Division of Drinking Water, written evidence of completion of the following items according to the deadlines given below:

1. **Peoa Pipeline** Drinking Water System must provide evidence that a public notice has been mailed as listed in FACTS AND VIOLATIONS above and as outlined in Attachment A. This must include proof of publication regarding the violations listed above as required by UAC R309-220-4. This notice shall include an explanation of all violations and the actions taken by the water system management to prevent further violations. The notice shall contain the words and/or information outlined in attachment A of this Order, including proof of publication within 30 days of receipt of this letter. A copy of the notice and proof of publication shall be provided to the Division within 45 days of receipt of this letter.
2. **Peoa Pipeline** must comply with UAC R309-215-5 within 60 days by submitting to the Executive Secretary a plan of action and time schedule for the installation and operation of a permanent disinfection facility

At a minimum the plan must:

- (a) provide a permanent solution to the bacteriological monitoring and quality violations associated with the water system.

If the plan calls for the installation of a chlorination facility:

- (a) the disinfection facility must be operable within 120 days of receipt of this Notice and Order;
- (b) ensure that the residual disinfection concentration entering the distribution system is not less than 0.2mg/L for more than 4mg/l as specified in UAC R309-200-7;
- (c) ensure that the residual disinfection levels are measured in the distribution system at the same time and location as the total coli form samples, including routine, repeat, and/or additional samples as specified in UAC R309-210-5;
- (d) ensure that a minimum of three residual disinfection level samples are collected each week as specified in UAC R309-210-8(3). A template of the Groundwater DBP Quarterly Report is found at the following link:

[http://www.drinkingwater.utah.gov/documents/compliance/GW\\_DBPR\\_Quarterly\\_Report.xls](http://www.drinkingwater.utah.gov/documents/compliance/GW_DBPR_Quarterly_Report.xls); and

## DRINKING WATER BOARD

<b>In the Matter of the Peoa Pipeline Drinking Water System #22013</b>	<b>Notice of Violation and Order Case No. 22013-2008-01</b>
--	---

The Drinking Water Board ("Board") issues this Notice of Violation and Order ("NOVO") under the Utah Safe Drinking Water Act ("Act"), sections 19-4-104, -105, -106, -107, and -109, the Utah Administrative Code ("UAC"), and in accordance with the Utah Administrative Procedures Act, section 63G-4-101 to -601.

### FACTS AND VIOLATIONS

1. The **Peoa Pipeline** Drinking Water System is a public water system in Summit County that provides drinking water to approximately 141 people through 46 active connections. Greg White is the Manager of the **Peoa Pipeline** Drinking Water System.
2. A copy of **Peoa Pipeline** Drinking Water System's Improvement Priority System ("IPS") report (copy enclosed) documents the **230** points that have been assessed against the water system.
3. Based on the Division of Drinking Water's records for the past 12 months, the **Peoa Pipeline** Drinking Water System has bacteriologic violations in violation of UAC R309-200-5(6)(a) and UAC R309-210-5 as follows:
  - A. Non-acute MCL bacteriological quality violation in May 2008;
  - B. Non-acute MCL bacteriological quality violation in June 2008;
  - C. Non-acute MCL bacteriological quality violation in July 2008; and
  - D. Non-acute MCL bacteriological quality violation in September 2008.
4. Based on **Peoa Pipeline's** bacteriologic sampling results, **Peoa Pipeline** is in violation of UAC R309-215-5 and must provide a method of disinfection.
5. **Peoa Pipeline** does not have a certified operator. This is a violation of UAC R309-300.
6. A sanitary survey was performed on November 15, 2007 by Elden Olsen, of the Division of Drinking Water. Based on the survey the following deficiencies were found:
  - A. **Peoa Pipeline** Water System lacks 40% of required storage capacity in violation of UAC R309-510-8.

A response contesting this NOV/CO must be received by the Executive Secretary within 30 days of the date this NOV/CO was signed. See Utah Code Annotated § 63G-4-201(2)(a)(vi) and § 63G-4-301. The Executive Secretary's address is:

(Mailing address)

Kenneth H. Bousfield, P.E.  
Executive Secretary  
Drinking Water Board  
c/o Division of Drinking Water  
P.O. Box 144830  
Salt Lake City, Utah 84414-4830

(Address for hand or overnight delivery)

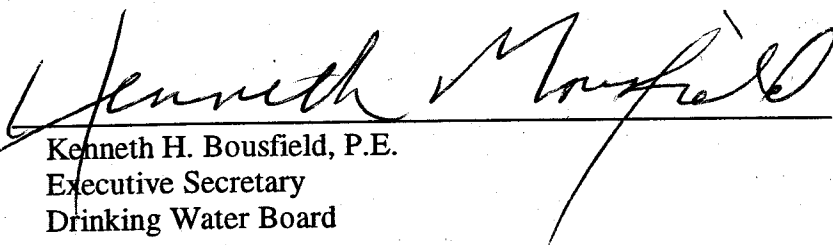
Kenneth H. Bousfield, P.E.  
Executive Secretary  
Drinking Water Board  
150 North 1950 West  
Salt Lake City, Utah 84414-4830

You will not be allowed to contest this NOV/CO in court or in any other forum if you do not first contest the NOV/CO as described above.

Issued this 18 day of December, 2008.

DRINKING WATER BOARD

By:

  
Kenneth H. Bousfield, P.E.  
Executive Secretary  
Drinking Water Board

Utah Code Annotated § 63G-4-201(3)(a)-(b):

- (a) Where the law applicable to the agency permits persons other than the agency to initiate adjudicative proceedings, that person's request for agency action shall be in writing and signed by the person invoking the jurisdiction of the agency, or by that person's representative, and shall include:
- (i) the names and addresses of all persons to whom a copy of the request for agency action is being sent;
  - (ii) the agency's file number or other reference number, if known;
  - (iii) the date that the request for agency action was mailed;
  - (iv) a statement of the legal authority and jurisdiction under which agency action is requested;
  - (v) a statement of the relief or action sought from the agency; and
  - (vi) a statement of the facts and reasons forming the basis for relief or agency action.
- (b) The person requesting agency action shall file the request with the agency and shall mail a copy to each person known to have a direct interest in the requested agency action.

- (e) ensure that two disinfection byproducts samples are collected before July 1, 2010 to comply with the IDSE (Initial Distribution System Evaluation). The samples should be taken at suspected high THM (Trihalomethane) and High HAA5 (Halo Acetic Acids) locations during the Peak Historical Month or month of warmest water temperature as specified in UAC R309-210-9, following the implementation of disinfection in your system. A sample pair (THM and HAA5) should be taken at each of the two sample locations. Sample location selection is based on the operator's best judgment and knowledge of the system.
- 3. **Peoa Pipeline Drinking Water System** must submit documentation showing that it has retained a certified operator as required by UAC R309-300 within 120 days of the date of receipt of this Order.
- 4. **Peoa Pipeline Drinking Water System** must submit documentation showing that the system has the required storage capacity as required by UAC R309-510-8 within 365 days of the date of receipt of this Order.

### **NOTICE**

Compliance with the provisions of this NOVO is mandatory. UCA § 19-4-109 provides that a violation of the ACT or a related order may be subject to a civil penalty of up to \$1,000 per day of violation. Under certain circumstances of willfulness or gross negligence, violators may be fined up to \$5,000 per day of violation.

### **CONTESTING THIS NOVO**

This NOV/CO is effective immediately and shall become final unless contested in writing within thirty (30) days after the date this NOV/CO was signed. See Utah Administrative Code R309-115- 3. Any further administrative proceedings in this case shall be conducted formally under Utah Code Annotated § 63G-4 -101 to -601. **If you do not request a hearing in writing and participate in the hearing, the Order will become final and you will not be allowed to contest this Notice of Violation in court.** See Utah Code Annotated § 63G-4-201(2)(a)(vi). Utah Code Annotated § 19-4-109 states that anyone who violates the Utah Safe Drinking Water Act, permit, rule, or order is subject to a civil penalty of up to \$1,000 per day of violation. Willful violators may be fined up to \$5,000 per day.

To contest this NOV/CO, you must respond in writing and must comply with the requirements of the Administrative Rules of the Drinking Water Board, found at Utah Administrative Code R309-115 and with the requirements of the Utah Administrative Procedures Act, including Utah Code Annotated § 63G-4-201 (3)(a)-(b). Those provisions of the Utah Administrative Procedures Act require, among other things, that you state your factual and legal reasons for disagreeing with the Notice of Violation or Compliance Order, and that you state the action that you would like the agency to take (e.g., withdrawing the NOV/CO). A copy of Utah Code Annotated § 63G-4-201(3)(a)-(b) is provided on the next page.



## CERTIFICATE OF MAILING

I certify that on December 18, 2008, I caused to be mailed a true and correct copy of the Foregoing NOTICE OF VIOLATION AND ORDER to:

### BY CERTIFIED MAIL TO:

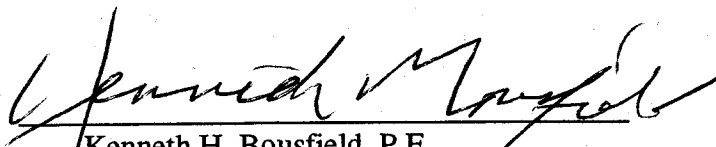
Greg White  
Peoa Pipeline Water System  
5626 North Highway 189  
Peoa, Utah 84061

### BY REGULAR MAIL TO:

Kathelene Brainich  
EPA Region VIII  
MC 8 ENF PT  
1595 Wynkoop  
Denver, Colorado 80202-1129

Melissa M. Hubbell  
Assistant Attorney General  
160 East 300 South, Fifth Floor  
P.O. Box 140873  
Salt Lake City, Utah 84114-0873

Steve Jenkins, Env. Director,  
HS, MPH Health Officer  
Summit County Public Health Department  
85 North 50 East  
P.O. Box 128  
Coalville, Utah 84017



Kenneth H. Bousfield, P.E.  
Executive Secretary

## Attachment A

Explanation and Required Elements for Public Notice To Be Sent to Each Customer of Your Water System. The following violations have occurred for the **Peoa Pipeline Drinking Water System**:

MCL bacteriological quality violation in May 2008.  
MCL bacteriological quality violation in June 2008.  
MCL bacteriological quality violation in July 2008.  
MCL bacteriological quality violation in September 2008.

**Peoa Pipeline Water System** must monitor for bacteriologic quality of one (1) sample per month. When a violation occurs, we must notify our customers in writing. A major monitoring violation occurs when no samples were collected during the month. If a sample is unsatisfactory, at least four "repeat" samples must be collected DURING THE SAME MONTH. In addition, the following month, at least five additional samples must be collected. A major repeat monitoring violation occurs when no "repeat" samples are collected for any unsatisfactory sample. A non-acute MCL Quality violation occurs when a system collecting less than 40 total coliform samples per month has one or more total coliform-positive sample during the month.

Bacteriologic sampling is performed because the U.S. Environmental Protection Agency (EPA) has determined that the presence of total coliforms (the organism tested for) is a possible health concern. Total Coliforms are common in the environment and are generally not harmful themselves. The presence of these bacteria in drinking water, however, generally is a result of a problem with water treatment or the pipes which distribute the water, and indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include: diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. EPA has set an enforceable drinking water standard for total coliforms to reduce the risk of these adverse health effects. Under this standard, no more than one total coliform-positive sample per month may be present. Drinking water which meets this standard is usually not associated with a health risk from disease-causing bacteria and should be considered safe.

Finally, **Peoa Pipeline Drinking Water System** management should include a brief statement describing why the violations occurred (perhaps the sampler was not aware of the sampling requirements) and what you are doing to prevent the violations discussed above from re-occurring (perhaps by saying he/she is receiving additional sampling training, etc.).

## **ATTACHMENT B**

Public Water System Improvement Priority System ("IPS") report for **Peoa Pipeline Water System**. This report indicates TCR rule violations and associated IPS points.

## **ATTACHMENT C**

Annual TCR Summary reports for 2006, 2007, 2008 for **Peoa Pipeline Water System**. This report indicates positive bacteriological routine and repeat samples in the last three years.



# Utah Department of Environmental Quality Division of Drinking Water

## Public Water System IPS Report

UTAH22013 PEOA PIPELINE COMPANY

Run Date: 12/17/2008

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### Operator Certification Points

	Distribution	Treatment	
Level Required	SS		
Highest Certificate on Record			
Points	30	0	Total Points 30

# Utah Department of Environmental Quality Division of Drinking Water

## Annual TCR Summary

For the 12 months beginning 1/1/2008

**PWS ID:** UTAH22013      **Name:** PEOA PIPELINE COMPANY  
**Legal Contact:** PEOA PIPELINE COMPANY      **Rating:** Not Approved  
                          GREG WHITE      **Rating Date:** 11/5/08  
**Address:** 5626 N HWY 189  
                  PEOA, UT 84061  
**Phone Number:** 435-783-5271  
**City Served (Area):**  
                  **County:** SUMMIT COUNTY  
**System Type:** Community      **Last Inv Update:** 2/6/08      **Avg Daily Prod:** 0      0  
**Activity Status Cd:** Active      **Last Snty Srv Dt:** 11/15/2007      **Total Dsgn Cap:** 0      0  
**Population:** 141      **Oper Period:** 1/1 to 12/31      **Total Emerg Cap:** 0      0

### Routine Bacteriological Sampling Requirements

<i>Samples Required</i>	<i>Requirement Started*</i>	<i>Requirement End*</i>
1 / Month	8/1/2007	5/31/2008
1 / Month	11/1/2008	
1 / Month	8/1/2008	7/31/2008
1 / Month	7/1/2008	6/30/2008
1 / Month	9/1/2008	9/30/2008

### Total Coliform Sample History

For the twelve months beginning 1/1/2008

	Routine Samples			Repeat Samples			Investigative Samples			Other
	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	
Jan	1	0	0	0	0	0	0	0	0	0
Feb	1	0	0	0	0	0	0	0	0	0
Mar	1	0	0	0	0	0	0	0	0	0
Apr	1	0	0	0	0	0	0	0	0	0
May	1	1	0	4	2	0	0	0	0	0
Jun	5	5	0	0	0	0	0	0	0	0
Jul	5	5	0	0	0	0	0	0	0	0
Aug	5	0	0	0	0	0	0	0	0	0
Sep	1	1	0	4	4	0	0	0	0	0
Oct	5	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0

**Utah Department of Environmental Quality**  
**Division of Drinking Water**  
**Annual TCR Summary**  
For the 12 months beginning 1/1/2007

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**Routine Bacteriological Sampling Requirements**

<u>Samples Required</u>	<u>Requirement Started*</u>	<u>Requirement End*</u>
1 / Month	8/1/2007	5/31/2008
1 / Month	10/1/2006	6/30/2007
1 / Month	11/1/2008	
1 / Month	8/1/2008	7/31/2008
1 / Month	7/1/2008	6/30/2008
1 / Month	9/1/2008	9/30/2008

**Total Coliform Sample History**

For the twelve months beginning 1/1/2007

	Routine Samples			Repeat Samples			Investigative Samples			Other
	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	
Jan	1	0	0	0	0	0	0	0	0	0
Feb	1	0	0	0	0	0	0	0	0	0
Mar	1	0	0	0	0	0	0	0	0	0
Apr	1	0	0	0	0	0	0	0	0	0
May	1	0	0	0	0	0	0	0	0	0
Jun	1	1	0	4	4	0	0	0	0	0
Jul	5	0	0	0	0	0	0	0	0	0
Aug	1	0	0	0	0	0	0	0	0	0
Sep	1	0	0	0	0	0	0	0	0	0
Oct	1	0	0	0	0	0	0	0	0	0
Nov	1	0	0	0	0	0	0	0	0	0
Dec	1	0	0	0	0	0	0	0	0	0
Jan	1	0	0	0	0	0	0	0	0	0



## For the 12 months beginning 1/1/2006

Gal/Day	Gal/Min
0	0
0	0
0	0

<b><i>Samples Required</i></b>	<b><i>Requirement Started*</i></b>	<b><i>Requirement End*</i></b>
1 / Month	8/1/2007	5/31/2008
1 / Month		7/31/2006
1 / Month	10/1/2006	6/30/2007
1 / Month	9/1/2006	8/31/2006
1 / Month	11/1/2008	
1 / Month	8/1/2008	7/31/2008
1 / Month	7/1/2008	6/30/2008
1 / Month	9/1/2008	9/30/2008

**For the twelve months beginning 1/1/2006**

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AGENDA ITEM 18

DIRECTORS REPORT

18. a) DIVISION STAFF ON-THE-SPOT  
AWARDS

DIVISION OF DRINKING WATER  
STAFF'S ON THE SPOT AWARDS  
2008

**Mark Bertelson:** Mark is very conscientious about his work. Mark keeps the balance between thorough plan review and practicality. Mark is also a master in disguising his thoroughness and professionalism behind the look of an easy-going and laid-back dude. Mark is passionate about safe guarding the long-term interest of the public water systems and public health during the design phase. We appreciate his relentless negotiations with the consultants for several treatment plant projects; he makes sure the water systems receive the products that work, and the operators have a workable and safe work environment.

**Bill Birkes:** Bill is a walking library of engineering rules and technical issues. Bill has an amazing skill of being a true know-it-all but without being associated with the negative sentiments of a typical know-it-all person. Bill has a big heart as he shares his knowledge and helps other engineers. If you ask Bill what the time it is, you'll end up learning how to build a clock. Many of the new engineers can provide testimonials on that.

**Heather Bobb:** Heather has taken a greater roll in preparing the financial assistance packets for SRF/Conservation Committee and the SRF/Conservation Committee's agenda item for the Drinking Water Board packets, SRF/Conservation Committee meetings, and arranging conference calls with applicants and the SRF/Conservation Committee of the Board, and preparing the authorization letters. She has also been a principle player in scanning SRF/Conservation Committee packets, SRF/Conservation Committee packets for the Drinking Water Board packet, plan approval and operating permit letters. She anticipates what I am going to ask her to do. Many times when I ask her to do something, she has already done it.

**Rachael Cassidy:** Rachael has proposed innovative ideas in dealing with grouped sources to solve problems created by the move from DMAC to SDWIS.

**Julie Cobleigh:** Julie has been working on our effort to determine the infrastructure improvement needs of water systems and to quantify their potential costs. She has sent letters to all community water systems, notifying them that we might receive additional funding through an economic recovery (stimulus) package from Congress and inviting them to fill out a short questionnaire. Julie has been working with respondents to get their projects on our project priority list. And whereas Congress will want this money obligated and spent quickly, Julie has been working to identify which systems could be started quickly. She has also sent letters to the significant non-compliers and systems with high arsenic levels extending an offer to let us help them correct their problems.

**Kim Dyches:** Kim is a nationally recognized expert in the field of emergency response and water system security. He is frequently asked by national organizations to review documents before publication, make presentations at conferences or facilitate training events in Utah by third party organizations. In this regard he has been involved with the Utah WARN project, the Department of Homeland Security, EPA, ASDWA, AWWA, the State's Hazardous Mitigation Team and RWAU, and he serves as Vice Chair on ASDWA's Security Committee. He is also nationally involved in Operator Certification issues and serves as the Chairman on ABC's Operator Certification Reciprocity Workgroup.

**Carolyn Esser:** Carolyn completed the scanning of the system files this year, which required relentlessly hounding those of us who conceal system files in our offices. This means that Ken will finally get to move into his new office, we won't have to move nearly as much stuff into the new building, and we can finally start to enjoy the full benefits of eDocs.

**Patti Fauver:** Patti participated on the EPA FACA committee which was tasked to come up with an Agreement-In-Principle for EPA's Total Coliform Rule revisions. In the process she provided a number of insights to FACA Committee participants regarding: a) the nature of public water systems, b) the capabilities of small water systems and c) she promoted compromise solutions to enable participants to reach agreement. She earned the respect of FACA Committee members including key senior EPA Drinking Water personnel. Through the FACA process Patti developed relationships with these senior EPA people that have started to pay dividends to the Division involving others areas of our work.

**Michael Georgeson:** Mike answered our stress call and came to the rescue in early 2008. At that time, we faced a significant challenge and had numerous orphaned backlogged projects. Mike's efficiency in chipping away these backlogged projects has slowly and steadily put us closer back on track. Counting the total knowledge and experience in drinking water engineering issues within the Engineering Sections, Mike and Bill each have 1/3, the rest of all engineers together add up to the remaining 1/3. We really appreciate Mike's riding back from the sunset to help us.

**Michael Grange:** Michael has made several presentations at RWAU conferences and Rural Community Assistance Corporation workshops. At a time of high staff turnover, he has also been willing to do any assignment given to him by me and Ken Bousfield. He has demonstrated professionalism and a great deal of common sense as he has sought to help systems through the capacity development program to improve the quality of their water and service to their customers, and to help our Division achieve its mission.

**Margaret Hand:** Margaret has done an outstanding job at preparing the exam materials, mailings and logistics for the nine exams given to water operators around the State. Margaret's eye for detail has made any claims that we've made mistakes defensible. In each instance Margaret has provided documentation to support her actions in putting an exam together. Margaret has also done an outstanding job with the Openline publication that is sent to operators around the State. Thank you for all your great work.

**Dave Hansen:** Dave has done an outstanding job at helping the other sections of DDW complete their surveys. Due to individuals leaving DDW and others on extended leave, Dave helped pick up surveys that were not completed by other sections and he did the surveys that were assigned to him too. Dave has also done an outstanding job of grouping the surveys and making assignments on a rotation basis. Dave has been able to implement the survey assignments and work around the problems associated with assigning them. Thank you for all your great work.

**Mark Hansen:** Mark has been willing to accept the challenge of implementing the surface water treatment rules.

**Bob Hart:** Bob is always willing to go the extra mile to provide thorough plan reviews. Bob has taken on several demanding complex hot potatoes to help out the Engineering Section, such as plan review assignments, Eden Waterworks projects, learning to do rule making, etc. We thank Bob for demonstrating true professionalism and providing customer service to external customers, earning their respect and trust.

**Cherie Heath:** Cherie accepted the challenge in working with laboratories in tracking and improving our ability to receive and process electronic bacteriological data.

**Brad Holdaway:** Brad is always upbeat and positive even when as soon as he thinks he is ahead, I pile more and more work his direction.

**Mark Jensen:** Mark continues to set a great example of fulfilling Ken's mission of having "one division" by helping Patti's section with work on the transition to SWR2, and by helping Ying-Ying's section with field assessments of UDI sources.

**Jesse Johnson:** Jesse has been working on the financial assistance application of Corinne City. The cost of the needed project is very high for this small community. Jesse has professionally and patiently reviewed and analyzed several different repayment options and met with community leaders and their engineer in an effort to find something that the community can afford and that will be acceptable to the Drinking Water Board. In the short time he has been here, he has also learned our rules quickly as he has performed plan reviews.

**Kate Johnson:** Kate assisted Representative Sylvia Andersen, a Utah Legislator, on the successful passage of HB40. This bill requires counties to enact a county ordinance regarding source protection. Kate's support involved: a) speaking before legislative committees on the technical issues of source protection, b) providing information to Representative Andersen on an as needed basis and c) correcting misconceptions held by water utilities, the Farm Bureau and other interest groups. After passage of the bill, Kate, with assistance from her staff, have commenced assisting counties with ordinance enactment and implementation issues associated with the Act.

**Kim Jorgensen:** Kim competently and smoothly took over several of Jennifer's work responsibilities while Jennifer was out on maternity leave, and made sure that work in Kim's and Patti's section continued seamlessly. Kim also quickly picked up our office procedures including DDW vehicle care, phone answering and transferring of calls, and has a helpful and friendly attitude.

**Pete Keers:** Pete has done an outstanding job at helping the other sections of DDW complete their surveys. Due to individuals leaving DDW and others on extended leave, Pete helped pick up surveys that were not completed by other sections and he did the surveys that were assigned to him too. Pete has also helped teach the Backflow 101 class and helped with proctoring. Thank you for all your great work.

**Gary Kobzeff:** Gary has worked diligently in preparing planning grant and loan packets for review and consideration by the Board. He has learned this process quickly and shown very good judgment. As part of his plan review assignments, Gary has also been assigned some exception requests to review and has done those reviews well.

**Janet Lee:** Janet has taken the lead in the designing the Division's strategy to properly track and determine compliance with the triggered source requirements of the ground water rule.

**Don Lore:** Don has addressed the challenge of processing exemption extensions for the handful of small water system that need a little bit more time to comply with the revised Arsenic MCL.

**Ying Ying Macauley:** Ying Ying represented the Department at a job fair held at the University of Utah for engineering students. She's obtained national and regional salary survey data from two credible sources and forwarded that information onto the Department's Human Resources personnel. She has also arranged numerous meetings with design consultants concerning proposed engineering projects in the State. The purpose for these meetings was to resolve issues with the design to facilitate the commencement and/or correction of projects. Some of these meetings involve projects in Hinckley, Blanding, Pine Springs Island, Diamond Hills, Tridell LaPoint, Granger Hunter Improvement District, Herriman City, Town of Alta, Saratoga Springs, South Rim Water, Oquirrh Mountain Water Co, Camp Steiner and Eden Waterworks.

**Jim Martin:** Jim also sets a great example of fulfilling Ken B's mission of having "one division" by helping with UDI assessments of sources, and by helping Ken W's section with Environmental Assessments of loan projects.

**Linda Matulich:** Linda assisted in the Division new building committee this year, providing helpful input on configuration of new work spaces and arrangement of the secretarial support cubicles.

**Michael Mortensen:** Michael completed his MBA degree this year. We congratulate Michael for this accomplishment. Michael has demonstrated his willingness to take on unfamiliar projects, as well as his ability to communicate and learn quickly. We thank Michael for providing good customer service to the water systems with a friendly approach and good communication skills. Michael slowly and steadily builds up his knowledgeable in fluoridation, and continues to review and improve our current fluoridation rules.

**Michael Moss:** Michael has done an outstanding job at helping water systems around the State put together their Cross Connection Control programs. Michael has put together training to help water systems comply with the five elements in a Cross Connection Control program. Michael has also been recognized nationally for his work with ABPA. Thank you for all your great work.

**Eva Nieminski:** At the AWWA Water Quality Technology Conference held in Cincinnati Ohio November 16 – 20, 2008, EVA presented four papers covering a number of issues. Two of the presentations were "last minute" efforts to cover for presenters not able to attend the conference. One of the papers, which she was scheduled to deliver, was a collaborative effort involving the major utilities in Utah. This paper dealt with investigating the correlation between E-coli and Cryptosporidium data at a wide range of sample sites. The second scheduled paper that Eva presented dealt with biological filtration of drinking water supplies. Her paper introduced a new topic and raised a significant amount of interest amongst conference attendees who felt this topic has significant future value and needs further research.

**John Oakeson:** John covered the Division commitments with the AWWA Intermountain Section even while facing personal adversities.

**Elden Olsen:** Elden has done an outstanding job at helping the other sections of DDW complete their surveys. Due to individuals leaving DDW and others on extended leave, Elden helped pick up surveys that were not completed by other sections and he did the surveys that were assigned to him too. Elden has also helped teach the Backflow 101 class and helped with proctoring. Thank you for all your great work.

**Steve Onysko:** Steve is very thorough in plan reviews and is conscientious in protecting public health. Many new engineers have benefited a great deal from Steve's mentoring skills and his willingness to share his knowledge. For debating engineering design during plan reviews, Steve is in no short supply of insightful comments. This is also true for discussions of other topics, such as politics, religion, and the best vehicle brand. Steve's mere presence prevents his colleagues from falling into the trap of group thinking, which we believe President Elect Obama probably learned from Steve when he selected his cabinet members. We appreciate Steve's candidness and his courage in speaking his mind at any cost.

**Rich Peterson:** Rich has developed interactive versions of several forms, which allow our customers to complete and return electronic versions of the forms to us. The information is downloaded directly into our data base, rather than having someone enter it. These include: (a) the Project Notification Form for plan review for construction projects, (b) the Deficiency Report Form, and (c) the Capacity Assessment Worksheet for federal SRF loan applications. Rich has also made the Drinking Water Board packets available on line, which gives the public better access to the documents contained in each packet and reduces the number of copies of the packet that must be printed and mailed.

**Sandy Pett:** Sandy provided helpful assistance in preparing grant applications for the division this year, which increases the chance of us getting additional funding next year for various projects. Sandy has also provided valuable suggestions to Ken B. to "safely" accommodate the Governor's 2010 budget that includes a 7% cut.

**Steve Poreda:** Steve accepted the assignment to move us to SDWIS web release 2 and has jumped right into all the preparation needed to get the Division ready to migrate.

**Ken Wilde:** Ken expeditiously worked with a financial assistance applicant to help solve a serious emergency situation involving water outages. The Canyon Meadows water system in Wasatch County needed a construction fix to restore water service to the system's residents. This required that Ken work closely with Board members and the applicant, involving lengthy meetings and/or phone conversations to work out the details, in a fast tracked manner, to enable the project to proceed with minimal disruption for the utility's customers. In addition, Ken has closely monitored the SRF economic stimulus package being discussed by Congress. He has also directed an effort to notify water utilities and engineering consultants of funding opportunities to ensure that Utah will be ready to get the money working in Utah for the benefit of water systems.

**Jennifer Yee:** Jennifer for taking care of us even during her maternity leave by preparing task packets to help us cope with her absence.